

HX-MS Supplemental Information

Mechanism of thimerosal-induced structural destabilization of a recombinant rotavirus

P[4] protein antigen formulated as a multi-dose vaccine

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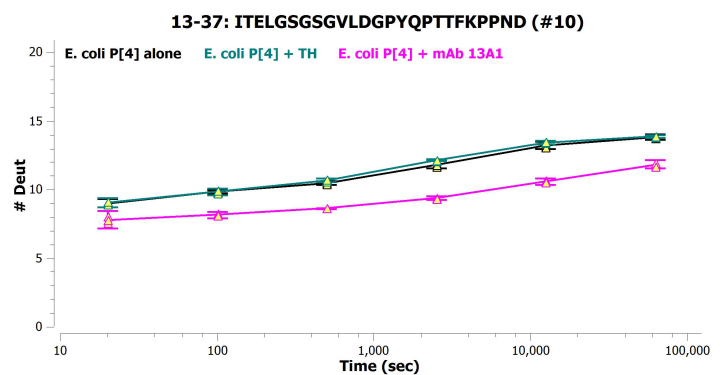
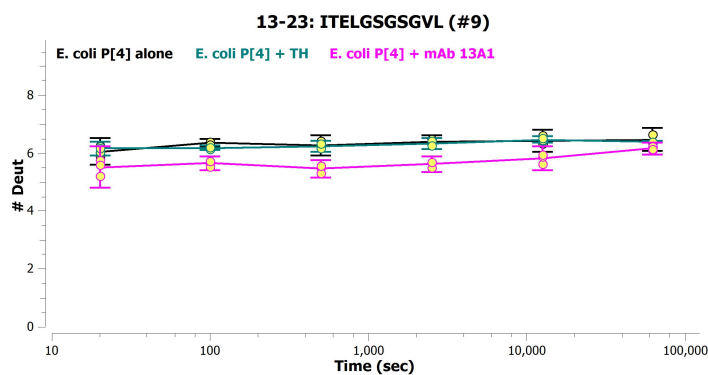
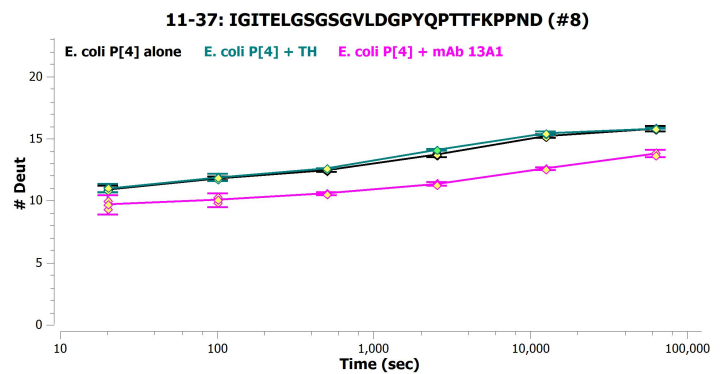
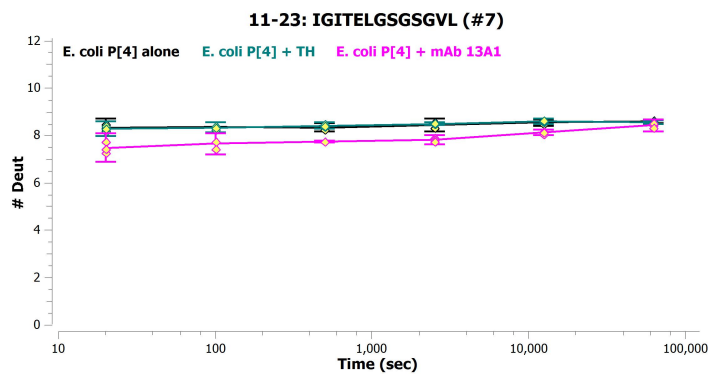
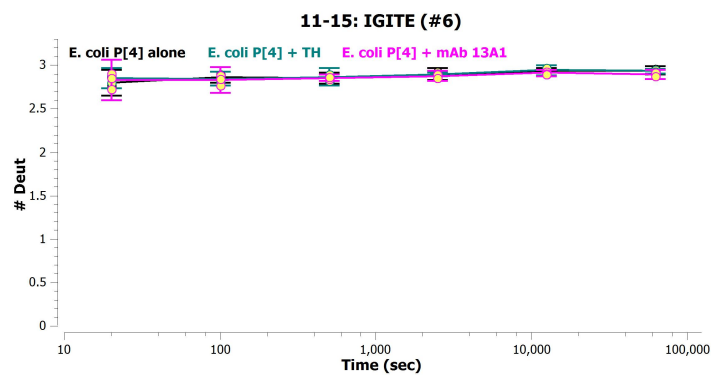
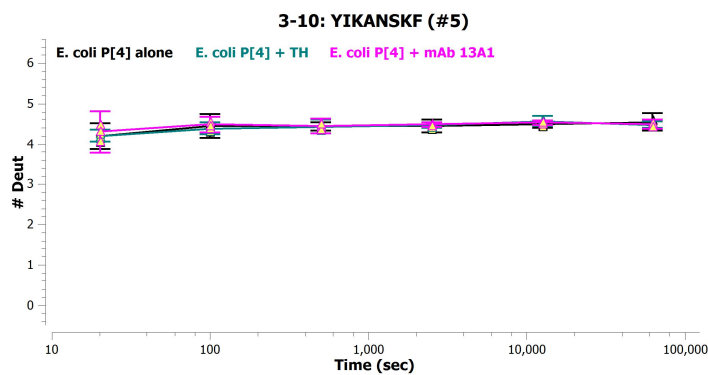
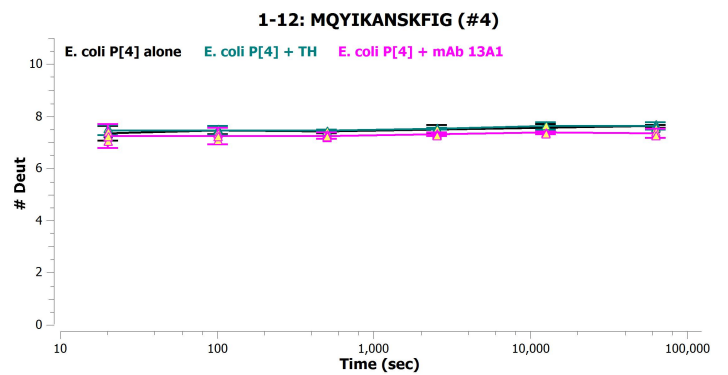
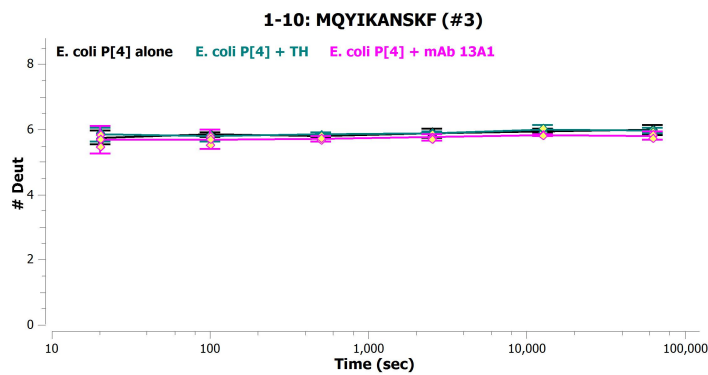
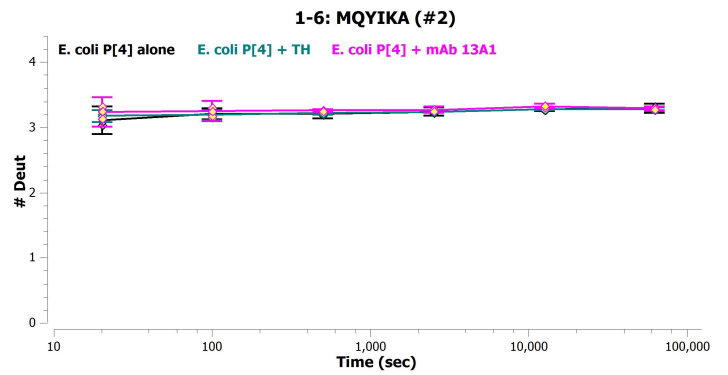
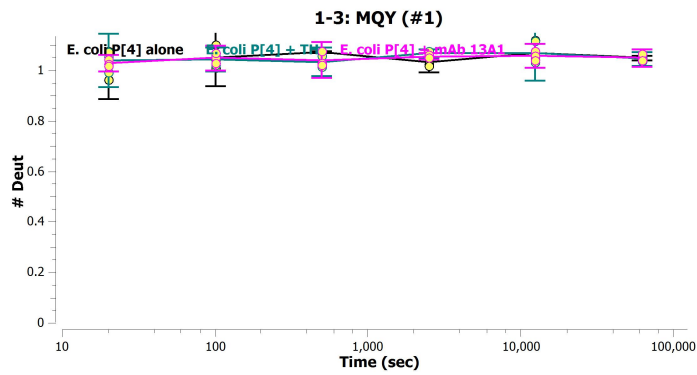
^g These authors contributed equally to this work.

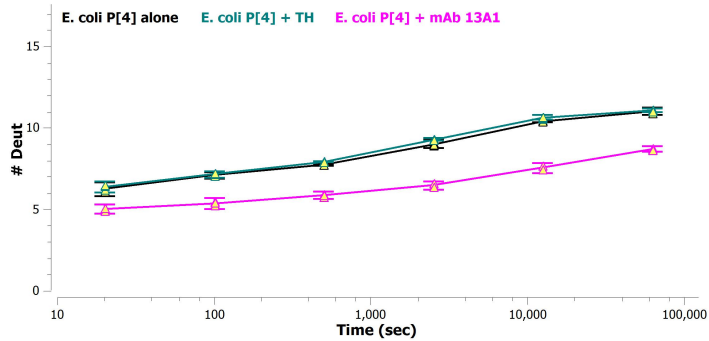
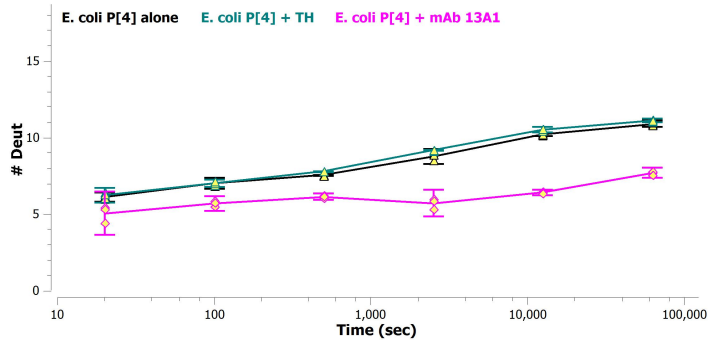
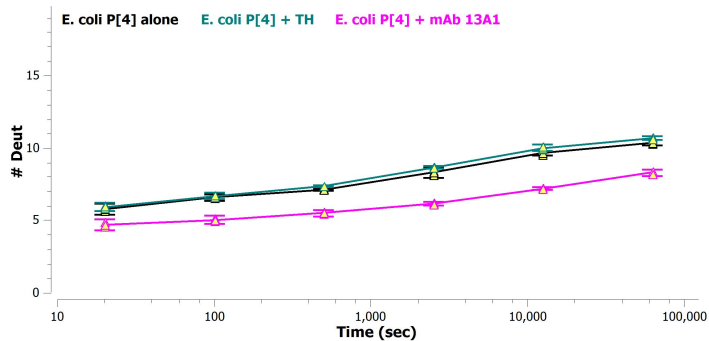
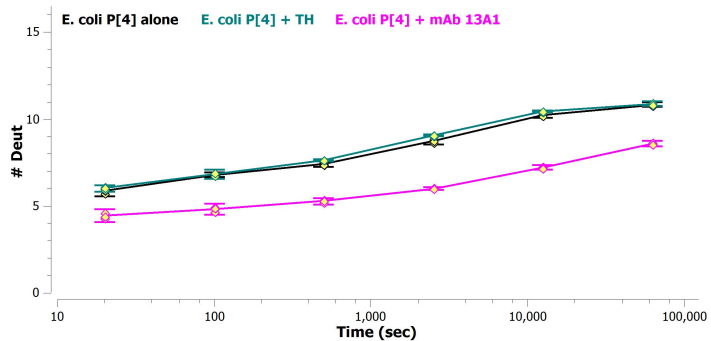
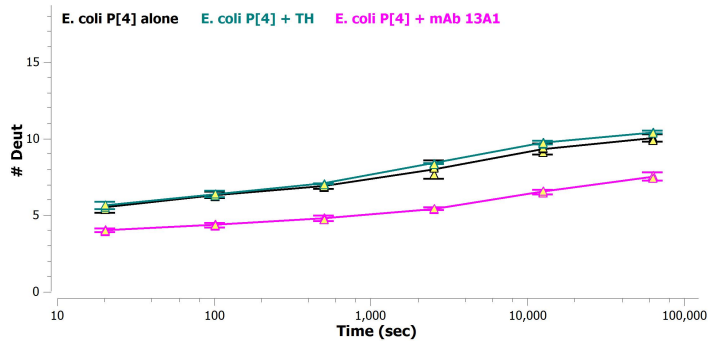
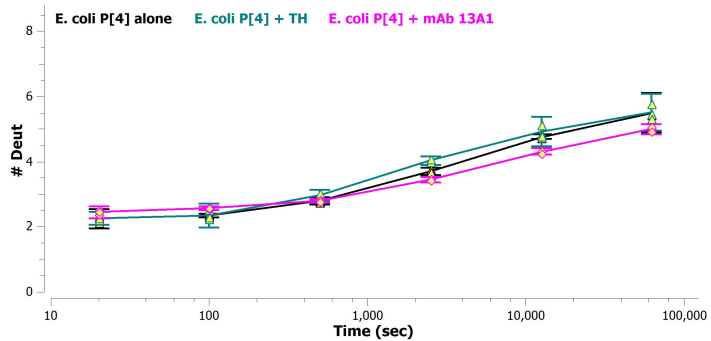
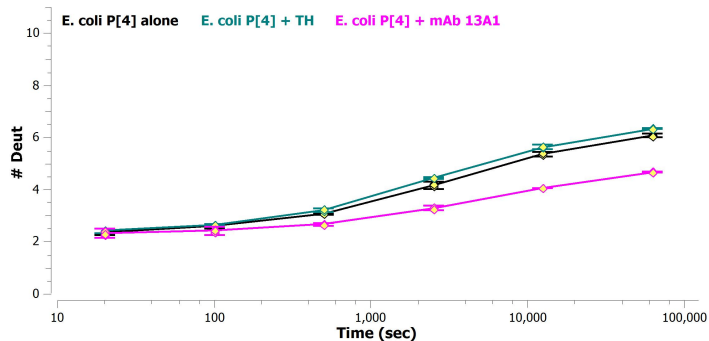
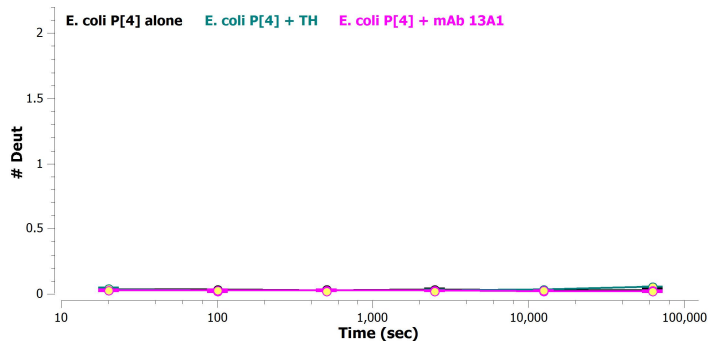
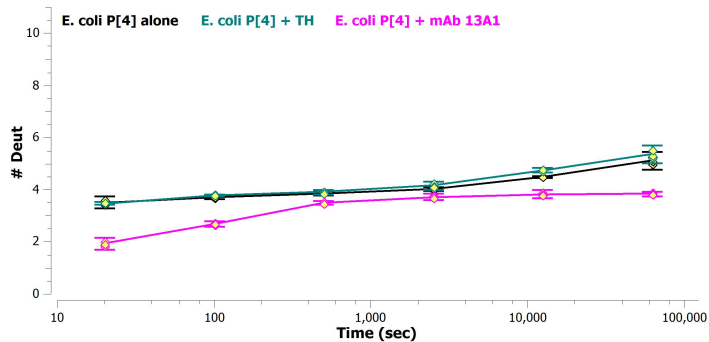
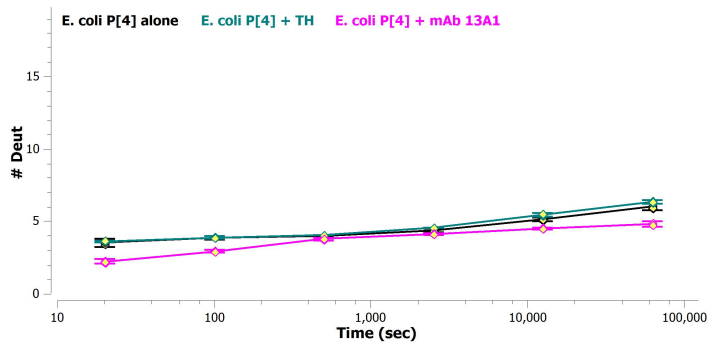
HX-MS experimental details, % deuterium uptake values and curves for the three NRRV P[4] protein samples used in the study: *E. coli* P[4], *Pp* P[4] (or P[4]-WT, wild type), and *Pp* P[4]-C173S (or P[4]-Cys M, cysteine mutant)

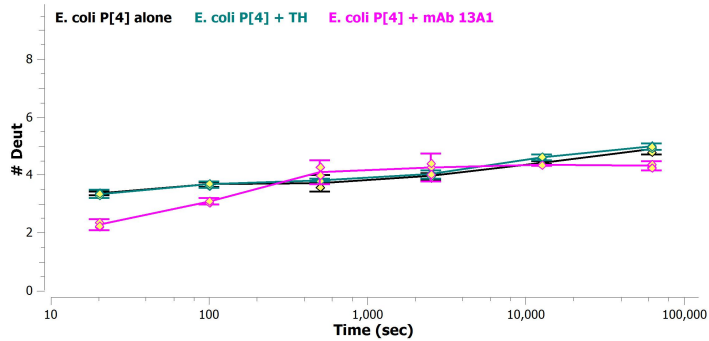
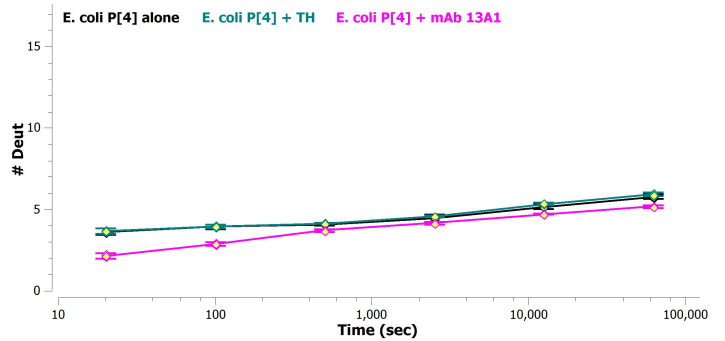
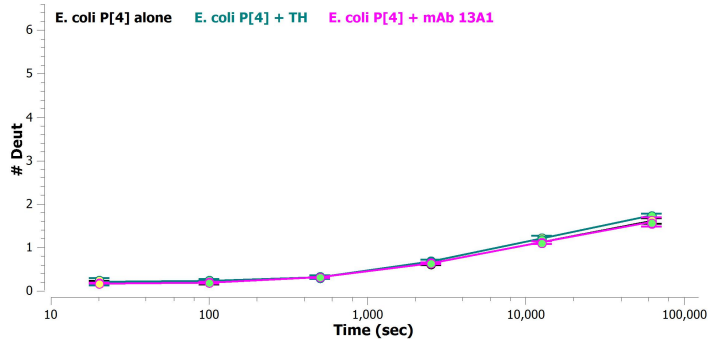
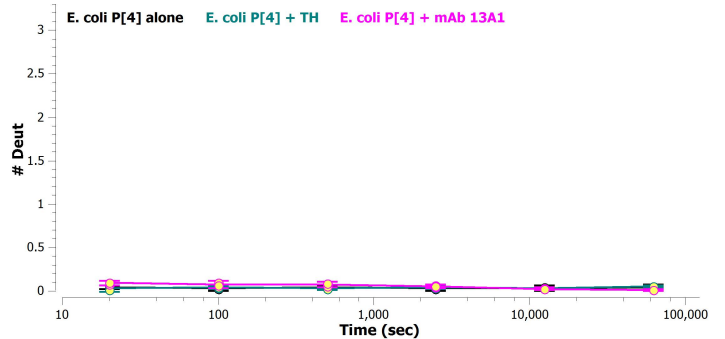
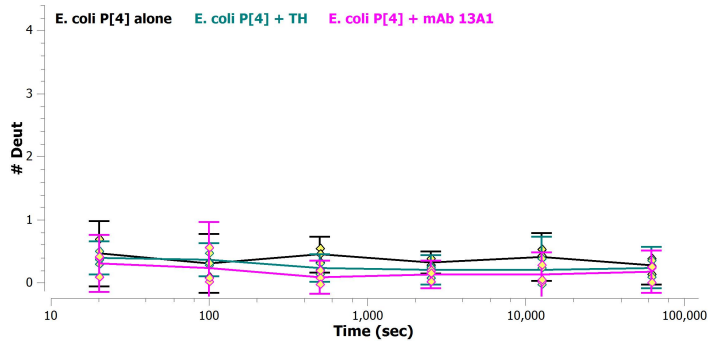
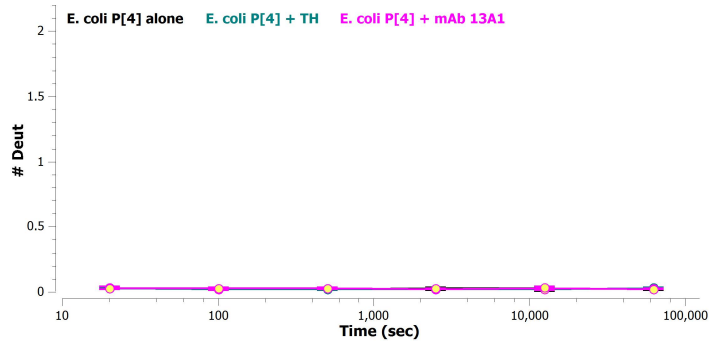
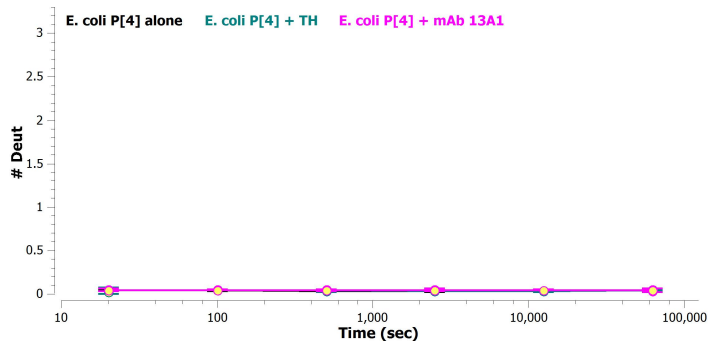
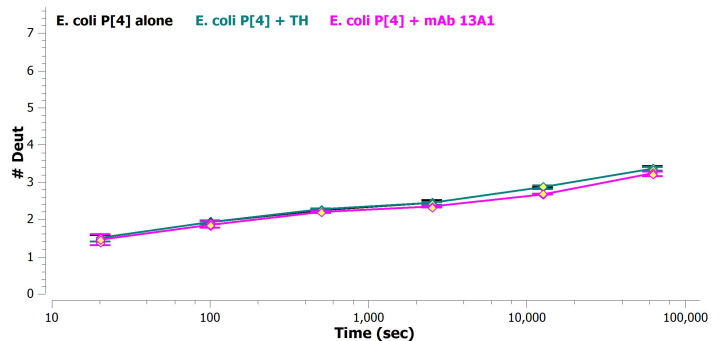
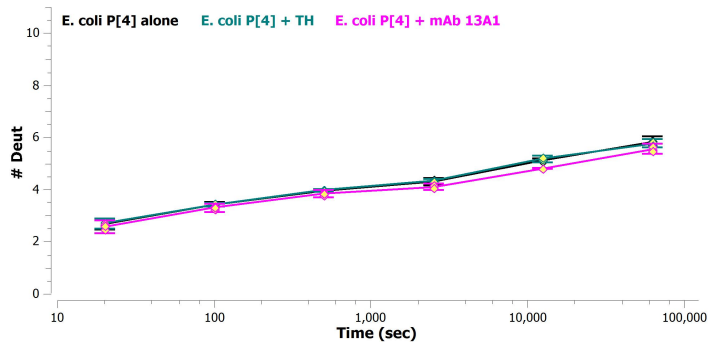
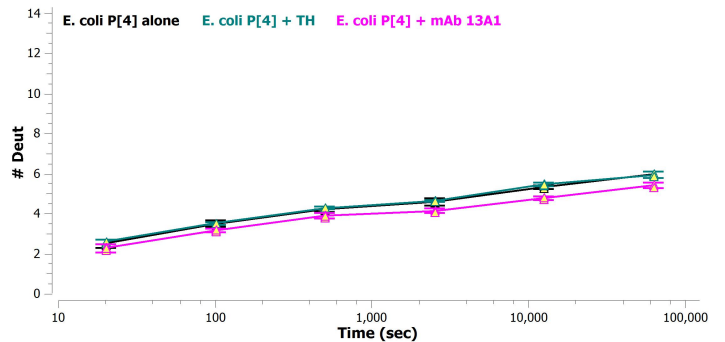
Data Set	<i>E. coli</i> P[4]	P[4]-WT	P[4]-Cys M
HDX reaction details	10 mM phosphate buffer, pD _{read} = 6.8, 20 °C	10 mM phosphate buffer, pD _{read} = 6.8, 20 °C	10 mM phosphate buffer, pD _{read} = 6.8, 20 °C
HDX time course (S)	20, 100, 500, 2500, 12500, 62500	20, 100, 500, 2500, 12500, 62500	20, 100, 500, 2500, 12500, 62500
HDX full D control samples	N/A	N/A	N/A
Back-exchange (mean / IQR)	N/A	N/A	N/A
# of Peptides	67	72	82
Sequence coverage overall	100%	100%	100%
Average peptide length	14.8	15.1	15.6
Replicates (biological or technical)	3 (technical)	3 (technical)	3 (technical)
Repeatability	0.088 (average standard deviation)	0.074 (average standard deviation)	0.100 (average standard deviation)
Significant differences in HDX (delta HDX > X D)	depend on individual peptide	depend on individual peptide	depend on individual peptide

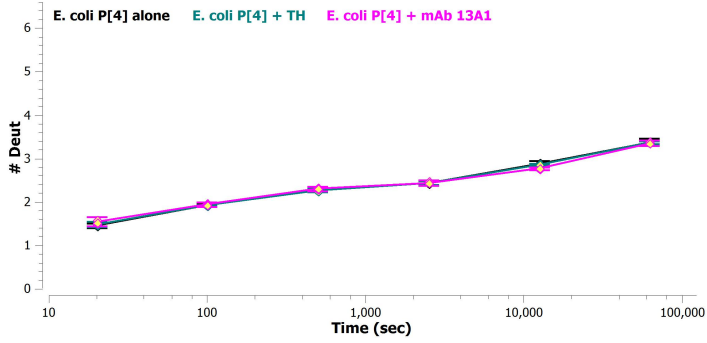
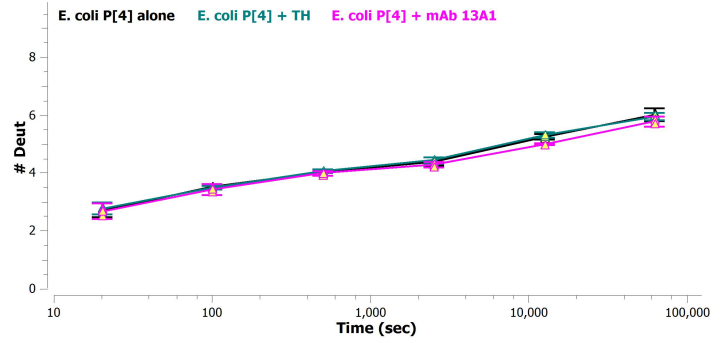
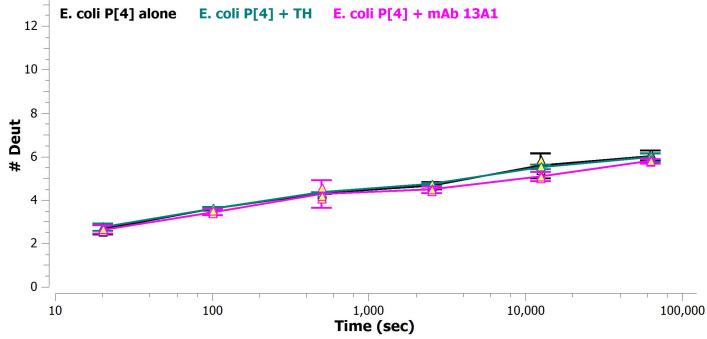
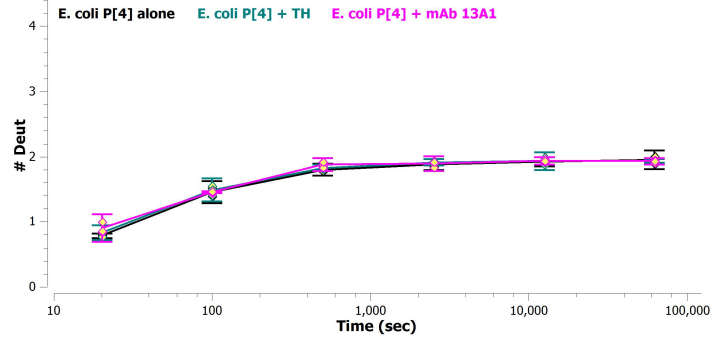
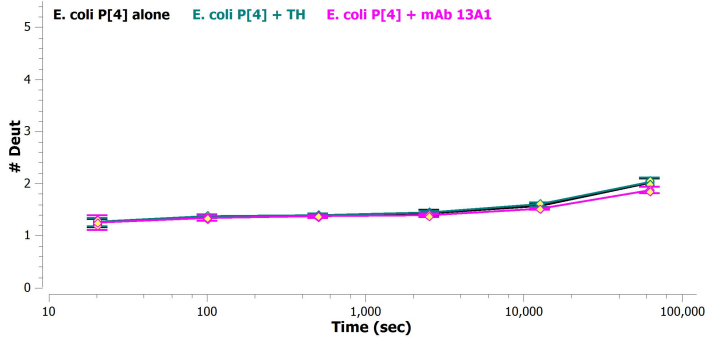
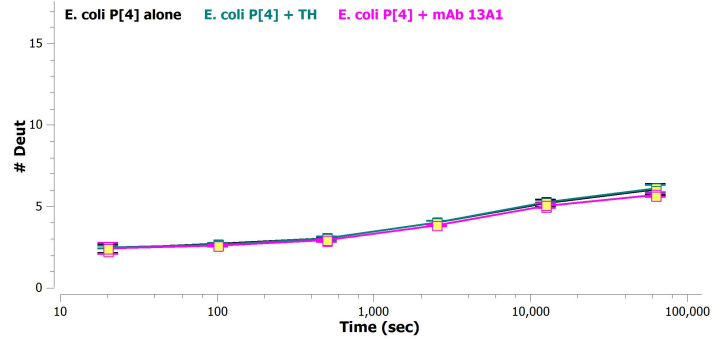
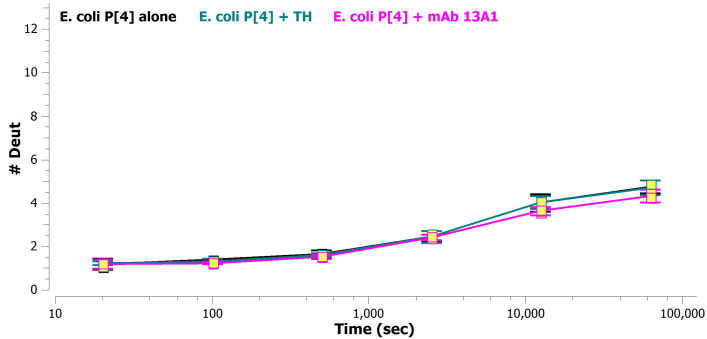
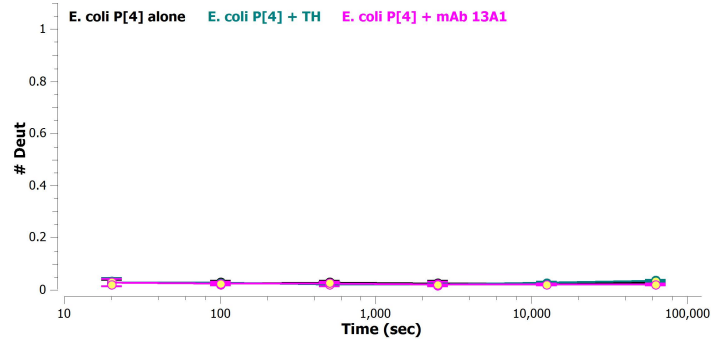
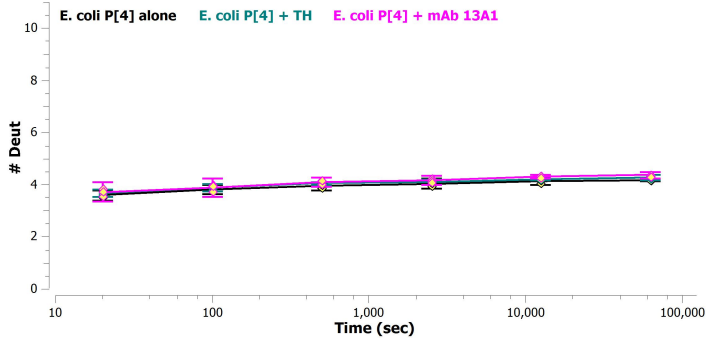
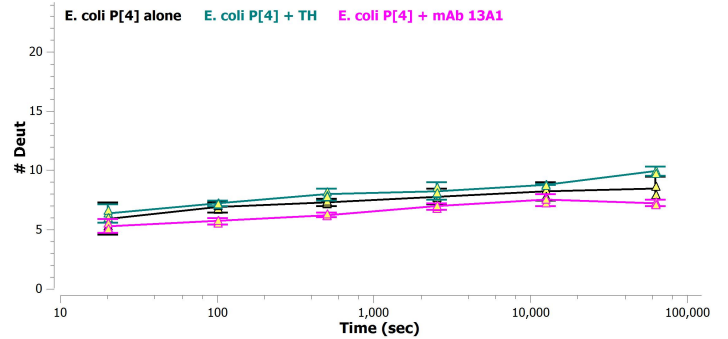
State	Start	End	Sequence	Search RT	Charge	Max D	20s #D	20s #D	20s #D	100s #D	100s #D	100s #D	500s #D	500s #D	500s #D	2500s #D	2500s #D	2500s #D	12500s #D	12500s #D	12500s #D	62500s #D	62500s #D	62500s #D
E.cali P[4] alone	1	3	MGY	4.26	1	1	0.965	1.076	1.045	1.043	1.01	1.101	1.072	1.071	1.075	1.048	1.027	1.018	1.043	1.119	1.044	1.054	1.048	1.048
E.cali P[4] alone	1	6	MQYKA	4.99	2	4	3.04	3.099	3.205	3.247	3.18	3.216	3.244	3.192	3.203	3.222	3.272	3.242	3.287	3.284	3.266	3.325	3.269	3.304
E.cali P[4] alone	1	10	MQYKANSKF	5.88	3	8	5.713	5.804	5.984	5.901	5.884	5.989	5.895	5.891	5.888	5.909	6.024	5.946	6.017	6.055	5.975	6.072	5.993	6.06
E.cali P[4] alone	1	12	MQYKANSKFFG	6.41	3	10	7.249	7.341	7.472	7.421	7.414	7.519	7.441	7.425	7.39	7.447	7.575	7.503	7.595	7.613	7.525	7.633	7.597	7.646
E.cali P[4] alone	3	10	YIKANSKF	4.36	3	6	4.194	4.07	4.323	4.526	4.311	4.506	4.424	4.489	4.411	4.392	4.518	4.453	4.481	4.531	4.457	4.601	4.447	4.592
E.cali P[4] alone	11	15	IGITE	4.47	1	3	2.749	2.782	2.864	2.855	2.85	2.897	2.884	2.842	2.837	2.883	2.934	2.886	2.943	2.934	2.955	2.949	2.921	2.962
E.cali P[4] alone	11	23	IGITELGSSGSLV	8.57	2	11	8.337	8.2	8.492	8.348	8.36	8.351	8.392	8.376	8.266	8.332	8.552	8.469	8.542	8.599	8.491	8.628	8.585	8.586
E.cali P[4] alone	11	37	IGITELGSSGSLVDPGYQPTTFKPPND	8.8	2	21	10.86	10.896	11.054	11.78	11.793	11.889	12.479	12.469	12.378	13.654	13.868	13.753	15.221	15.252	15.143	15.853	15.717	15.875
E.cali P[4] alone	13	23	ITELGSSGSLV	7.1	1	9	5.89	6.027	6.264	6.391	6.387	6.302	6.436	6.236	6.166	6.491	6.344	6.312	6.616	6.39	6.324	6.395	6.375	6.661
E.cali P[4] alone	13	37	ITELGSSGSLVDPGYQPTTFKPPND	8.07	2	19	9.059	9.875	9.196	9.862	9.834	10.109	10.668	10.639	10.538	11.822	12.055	11.871	13.297	13.354	13.221	13.996	13.878	14.038
E.cali P[4] alone	16	37	LGSSGSLVDPGYQPTTFKPPND	7.6	2	16	6.251	6.376	6.537	7.193	7.226	7.363	7.904	7.916	7.845	9.055	9.315	9.185	10.663	10.7	10.594	11.319	11.234	11.35
E.cali P[4] alone	16	38	LGSSGSLVDPGYQPTTFKPPNDY	8.24	2	17	6.14	6.169	6.321	6.994	7.012	7.1	7.641	7.719	7.648	8.706	9.012	8.853	10.443	10.35	10.295	11.078	10.966	11.114
E.cali P[4] alone	16	39	LGSSGSLVDPGYQPTTFKPPNDYW	9.8	3	18	5.648	5.794	5.966	6.536	6.578	6.697	7.131	7.186	7.151	8.172	8.432	8.359	9.577	9.709	9.654	10.465	10.312	10.387
E.cali P[4] alone	17	37	GSSGSLVDPGYQPTTFKPPND	7.32	2	15	5.742	5.884	6.001	6.781	6.778	6.886	7.436	7.526	7.389	8.665	8.854	8.767	10.211	10.212	10.161	10.838	10.792	10.903
E.cali P[4] alone	17	39	GSSGSLVDPGYQPTTFKPPNDYW	9.61	2	17	5.504	5.582	5.778	6.362	6.42	6.46	7.067	6.971	7.085	8.116	8.333	8.239	9.558	9.627	9.547	10.423	10.339	10.25
E.cali P[4] alone	24	37	DGYPYQPTTFKPPND	6.14	2	8	2.453	2.57	2.556	2.743	2.739	2.774	3.228	3.227	3.198	4.308	4.435	4.398	5.677	5.722	5.685	6.357	6.304	6.363
E.cali P[4] alone	24	39	DGYPYQPTTFKPPNDYW	9.19	2	10	2.366	2.347	2.448	2.584	2.599	2.651	3.107	3.077	3.079	4.122	4.231	4.192	5.353	5.329	5.407	6.101	6.093	6.044
E.cali P[4] alone	38	41	YWLL	11.1	1	2	0.04	0.035	0.031	0.036	0.034	0.035	0.033	0.032	0.027	0.036	0.033	0.029	0.028	0.031	0.027	0.03	0.025	0.034
E.cali P[4] alone	40	51	LUSNTNGVY	7.65	2	10	3.477	3.433	3.61	3.753	3.681	3.711	3.843	3.85	3.91	4.003	4.065	4.021	4.479	4.476	4.501	5.263	4.985	5.085
E.cali P[4] alone	40	59	LUSNTNGVYVVESTNNDF	8.18	2	18	3.412	3.572	3.625	3.854	3.896	3.946	3.994	4.037	4.044	4.371	4.474	4.421	5.104	5.203	5.144	6.12	5.949	5.997
E.cali P[4] alone	41	51	LUSNTNGVY	6.17	1	9	3.396	3.372	3.407	3.775	3.748	3.835	3.822	3.757	3.776	3.918	3.991	4.036	4.379	4.48	4.413	4.929	4.81	4.881
E.cali P[4] alone	42	59	ISSNTNGVYVVESTNNDF	6.82	2	16	3.546	3.641	3.704	3.882	3.962	3.983	4.072	4.108	4.082	4.379	4.547	4.497	5.129	5.227	5.144	5.849	5.727	5.786
E.cali P[4] alone	52	59	ESTNNDF	4.28	1	6	1.187	1.217	1.183	1.207	1.241	1.197	1.319	1.323	1.323	1.644	1.613	1.136	1.112	1.114	1.112	1.166	1.581	1.572
E.cali P[4] alone	59	63	FWTAV	8.1	1	3	0.036	0.05	0.037	0.045	0.017	0.03	0.04	0.044	0.034	0.05	0.022	0.035	0.047	0.025	0.044	0.026	0.052	0.052
E.cali P[4] alone	59	64	FWTAVI	9.72	2	4	0.316	0.704	0.38	0.483	0.341	0.115	0.565	0.469	0.336	0.406	0.275	0.292	0.251	0.552	0.45	0.154	0.288	0.396
E.cali P[4] alone	60	63	WTAV	5.58	1	2	0.027	0.029	0.028	0.022	0.028	0.027	0.023	0.028	0.019	0.023	0.03	0.022	0.033	0.022	0.019	0.02	0.019	0.027
E.cali P[4] alone	60	64	WTAVI	7.81	1	3	0.046	0.049	0.048	0.043	0.037	0.048	0.037	0.038	0.034	0.037	0.035	0.031	0.043	0.034	0.03	0.041	0.04	0.033
E.cali P[4] alone	64	73	IAVEPHVST	4.1	2	7	1.479	1.502	1.547	1.942	1.914	1.949	2.262	2.255	2.269	2.409	2.475	2.438	2.875	2.865	2.862	3.387	3.336	3.386
E.cali P[4] alone	64	76	IAVEPHVSTNRQ	3.65	2	10	2.601	2.667	2.778	3.405	3.421	3.474	3.96	3.976	3.965	4.269	4.373	4.281	5.119	5.156	5.102	5.877	5.739	5.884
E.cali P[4] alone	64	79	IAVEPHVSTNRQYIL	7.05	3	13	2.421	2.555	2.547	3.444	3.549	3.549	4.17	4.276	4.228	4.535	4.666	4.595	5.368	5.361	5.301	6.008	5.894	6.01
E.cali P[4] alone	65	76	AVEPHVST	3.14	2	6	1.464	1.434	1.476	1.923	1.938	1.941	2.291	2.281	2.25	2.42	2.453	2.469	2.847	2.891	2.907	3.403	3.353	3.394
E.cali P[4] alone	65	76	AVEPHVSTNRQ	2.89	3	9	2.638	2.709	2.817	3.489	3.535	3.565	4.043	4.05	4.07	4.354	4.476	4.388	5.258	5.209	5.208	6.082	5.96	6.051
E.cali P[4] alone	65	79	AVEPHVSTNRQYIL	6.64	3	12	2.555	2.741	2.705	3.583	3.616	3.641	4.331	4.351	4.305	4.682	4.75	4.613	5.843	5.572	5.384	6.045	5.957	6.041
E.cali P[4] alone	74	79	NRQYIL	6.48	2	4	0.787	0.777	0.805	1.53	1.403	1.422	1.846	1.784	1.777	1.858	1.923	1.873	1.95	1.926	1.892	1.967	1.985	2.147
E.cali P[4] alone	80	86	FGENKQF	5.21	2	5	1.221	1.244	1.283	1.376	1.363	1.394	1.372	1.39	1.4	1.423	1.467	1.426	1.591	1.576	1.562	2.042	1.983	2.039
E.cali P[4] alone	80	97	FGENKQFVENNNDKWK	8.1	4	16	2.302	2.484	2.51	2.712	2.698	2.713	3.067	3.052	3.031	4.045	4.027	3.973	5.305	5.2	5.129	6.115	5.919	6.187
E.cali P[4] alone	84	97	KQFVENNNDKWK	7.49	4	12	1.067	1.217	1.255	1.402	1.421	1.387	1.711	1.636	1.566	2.588	2.461	2.387	3.845	4.163	4.057	4.61	4.794	4.853
E.cali P[4] alone	98	100	FEM	6.24	1	1	0.021	0.029	0.03	0.023	0.031	0.026	0.024	0.031	0.027	0.025	0.021	0.029	0.027	0.024	0.027	0.028	0.027	0.028
E.cali P[4] alone	98	109	FEMFKGSSQDGF	8.35	2	10	3.522	3.605	3.682	3.755	3.791	3.899	3.883	3.995	3.994	3.948	4.093	4.08	4.08	4.187	4.158	4.204	4.18	4.162
E.cali P[4] alone	98	121	FEMFKGSSQDGFNRRLTSSNRL	7.18	3	22	5.349	6.042	6.464	6.793	6.837	7.105	7.232	7.303	7.467	7.532	7.812	8.073	8.442	8.394	7.885	8.723	8.051	8.731
E.cali P[4] alone	101	109	FKGSSQDGF	4.88	2	7	3.768	3.869	3.946	4.279	4.214	4.235	4.412	4.394	4.391	4.433	4.543	4.486	4.588	4.567	4.553	4.669	4.572	4.705
E.cali P[4] alone	101	121	FKGSSQDGFNRRLTSSNRL	5.31	3	19	6.519	7.098	7.186	8.085	8.046	8.25	8.686	8.73	8.583	8.99	9.181	8.917	9.802	9.574	9.419	9.973	9.714	10.246
E.cali P[4] alone	101	123	FKGSSQDGFNRRLTSSNRLVGM	5.49	4	21	6.074	6.612	6.762	7.74	7.521	7.827	8.305	8.25	8.883	8.63	8.558	8.532	9.54	9.107	9.063	9.974	9.158	10.052
E.cali P[4] alone	101	125	FKGSSQDGFNRRLTSSNRLVGM	7.76	4	23	6.059	6.51	6.669	7.127	7.363	7.45	7.814	7.996	7.748	8.305	8.153	8.233	8.4	8.616	8.58	9.312	9.182	9.052
E.cali P[4] alone	102	121	FKGSSQDGFNRRLTSSNRL	4.92	4	18	6.014	6.408	6.47	7.473	7.46	7.686	8.036	7.967	7.961	8.465	8.569	8.319	9.194	8.736	8.834	9.289	8.817	9.644
E.cali P[4] alone	122	124	VGM	2.87	1	1	-0.002	0.108	0.012	0.043	0.095	-0.039	0.003	-0.02	0.052	0.06	0.001	0.021	-0.004	-0.045	-0.007	0.23	0.152	0.135
E.cali P[4] alone	122	134	VGMLKYGGRRVWF	9.52	3	11	9.959	9.98	10.11	13.18	12.27	10.93	1.31	1.184	1.112	1.377	1.29	1.191	1.693	1.501	1.428	2.64	1.982	2.615
E.cali P[4] alone	122	147	VGMLKYGGRRVWFHGETPRATDSSN	7.37	4	23	1.447	1.948	2.229	2.731	2.696	2.55	3.451	3.148	2.949	3.709	3.332	3.23	4.306	4.26	4.68	7.251	5.726	7.767
E.cali P[4] alone	122	151	VGMLKYGGRRVWFHGETPRATDSSNTADL	7.85	4	27	3.424	3.84	3.899	4.896	4.64	4.816	5.714	5.657	5.65	6.372	6.319	6.252	7.849	7.457	7.389	10.084	8.703	10.231
E.cali P[4] alone	122	153	VGMLKYGGRRVWFHGETPRATDSSNTADLNN	7.48																				

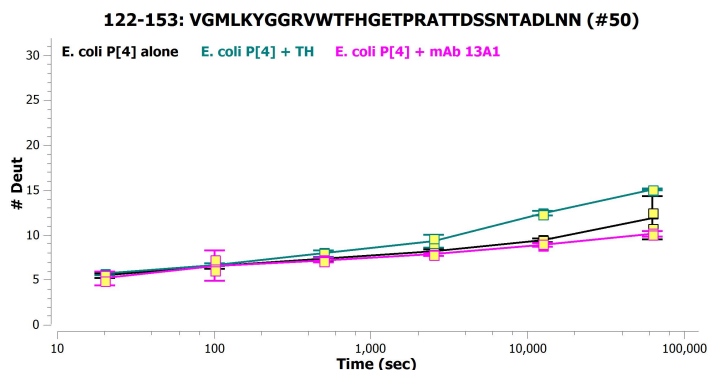
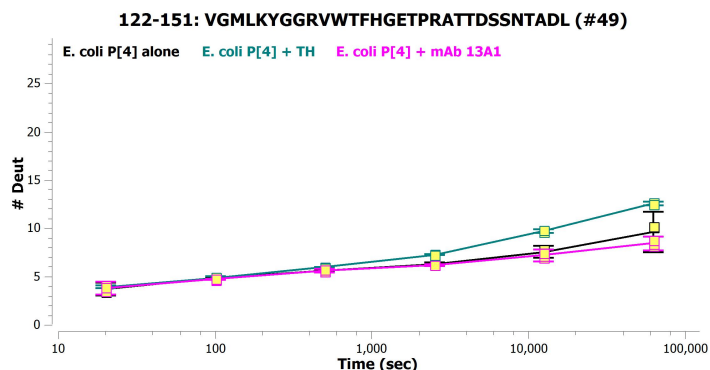
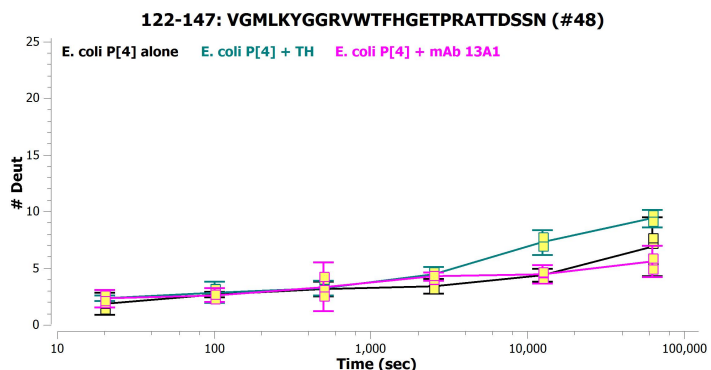
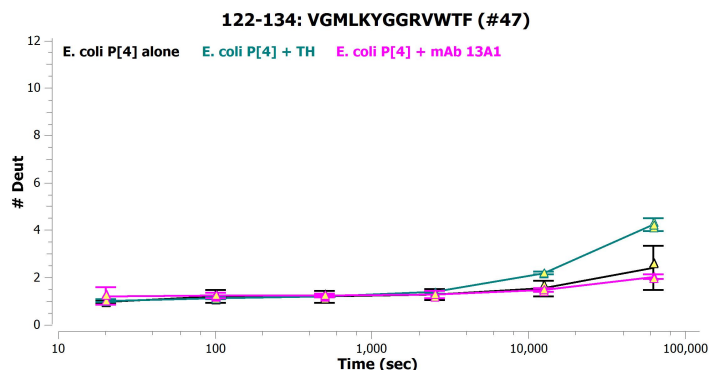
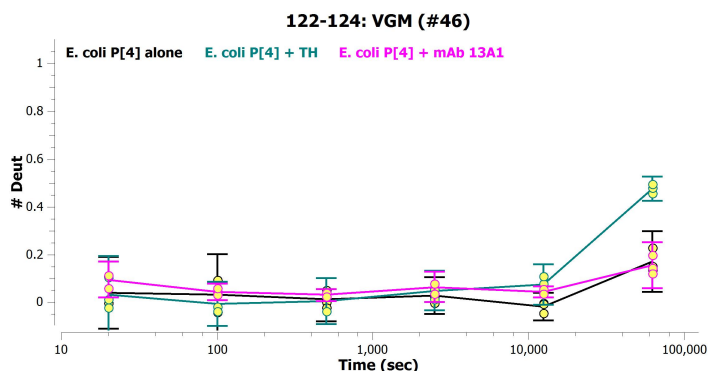
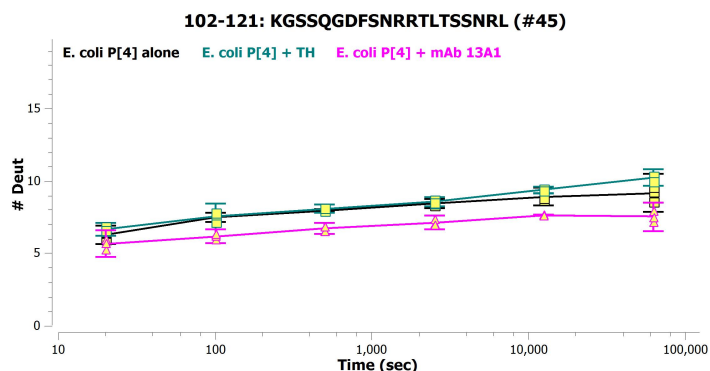
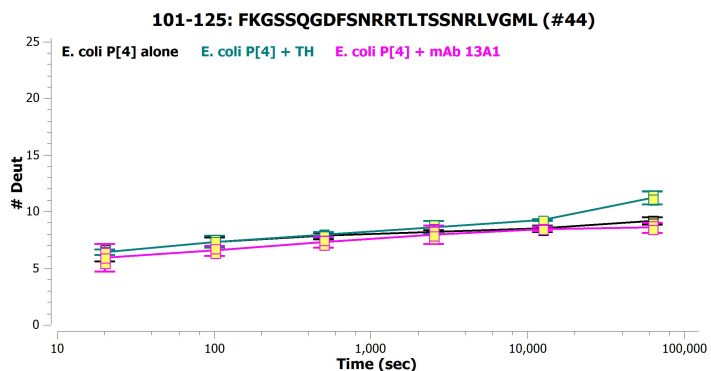
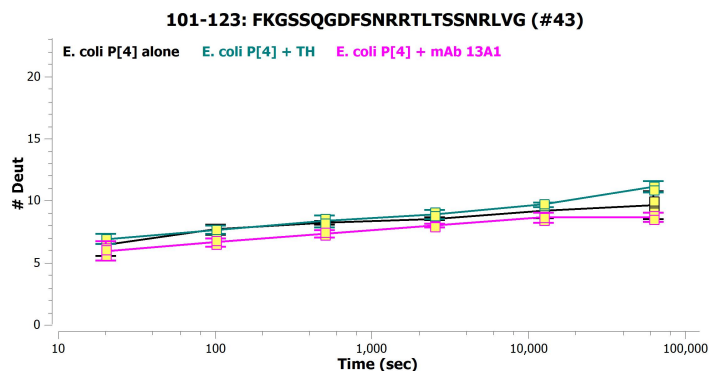
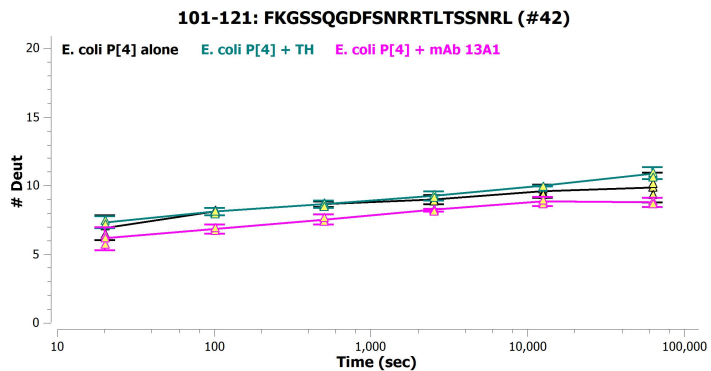
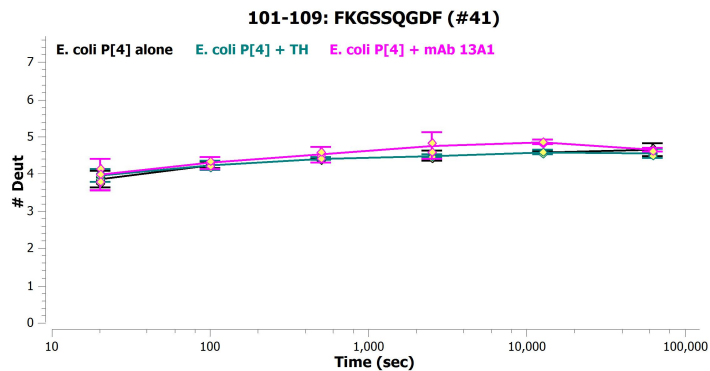
E. coli P[4] with Thimerosal	84	97	KQFNVENNSDKWK	7.49	4	12	1.225	1.252	1.189	1.278	1.331	1.371	1.576	1.617	1.658	2.433	2.362	2.579	3.877	4.086	4.081	4.617	4.658	4.877
E. coli P[4] with Thimerosal	98	100	FEM	6.24	1	1	0.035	0.031	0.023	0.026	0.028	0.027	0.023	0.02	0.025	0.02	0.022	0.024	0.026	0.03	0.024	0.036	0.037	0.035
E. coli P[4] with Thimerosal	98	109	FEMFKGSSQGD	8.35	2	10	3.622	3.69	3.741	3.833	3.905	3.932	4.066	4.072	4.034	4.17	4.092	4.095	4.206	4.203	4.209	4.257	4.338	4.263
E. coli P[4] with Thimerosal	98	121	FEMFKGSSQGD	7.18	3	22	6.423	6.684	6.661	7.168	7.339	7.217	8.213	7.94	7.83	8.623	8.073	8.15	8.846	8.8	8.827	10.015	10.068	9.776
E. coli P[4] with Thimerosal	101	109	FKGSSQGD	4.88	2	7	3.895	4.035	3.969	4.176	4.268	4.242	4.417	4.294	4.397	4.513	4.489	4.476	4.564	4.604	4.6	4.567	4.598	4.508
E. coli P[4] with Thimerosal	101	121	FKGSSQGD	5.31	3	19	7.218	7.551	7.289	8.022	8.18	8.212	8.77	8.704	8.55	9.519	9.204	9.176	9.987	9.961	10.002	10.961	11.036	10.695
E. coli P[4] with Thimerosal	101	123	FKGSSQGD	5.49	4	21	6.745	7.058	6.991	7.504	7.745	7.749	8.584	8.234	8.269	9.1	8.862	8.831	9.637	9.691	9.779	11.252	11.215	10.93
E. coli P[4] with Thimerosal	101	125	FKGSSQGD	7.76	4	23	6.368	6.543	6.387	7.1	7.53	7.422	8.049	7.977	7.87	8.872	8.466	8.53	9.225	9.277	9.279	11.103	11.119	11.109
E. coli P[4] with Thimerosal	102	121	VGSSQGD	4.92	4	18	5.565	5.896	6.636	7.182	7.711	7.85	8.167	7.97	7.87	8.712	8.462	8.541	9.35	9.496	9.354	10.395	10.404	9.997
E. coli P[4] with Thimerosal	122	124	KGM	2.87	1	1	0.106	-0.021	0.013	-0.019	0.036	-0.038	0.035	0.023	0.013	0.057	0.079	0.077	0.109	0.04	0.045	0.475	0.495	0.495
E. coli P[4] with Thimerosal	122	134	VGMLKYGRRVWF	9.52	3	11	1.027	1.05	1.011	1.15	1.153	1.112	1.22	1.193	1.198	1.41	1.414	1.372	2.22	2.175	2.199	4.134	4.348	4.227
E. coli P[4] with Thimerosal	122	147	VGMLKYGRRVWF	7.37	4	23	2.386	2.402	2.236	2.856	3.289	2.508	3.495	2.969	3.279	4.596	4.719	4.221	7.106	7.794	6.97	9.247	9.78	9.221
E. coli P[4] with Thimerosal	122	151	VGMLKYGRRVWF	7.85	4	27	3.911	4.009	3.937	4.84	4.969	4.922	5.987	6.002	5.94	7.32	7.293	7.281	9.683	9.802	9.794	12.623	12.67	12.508
E. coli P[4] with Thimerosal	122	153	VGMLKYGRRVWF	7.48	4	29	5.737	5.786	5.628	6.655	6.774	6.717	8.112	7.822	7.997	9.22	9.146	9.686	12.53	12.438	12.331	15.119	15.014	15.047
E. coli P[4] with Thimerosal	122	155	VGMLKYGRRVWF	7.78	4	31	5.829	6.064	5.926	7.352	7.395	7.461	8.761	8.685	8.737	10.144	10.203	10.151	12.908	12.98	13.092	16.369	16.521	16.146
E. coli P[4] with Thimerosal	124	134	MLKYGRRVWF	9.2	3	9	1.013	1.03	1.011	1.091	1.121	1.081	1.203	1.147	1.165	1.378	1.339	1.349	2.005	1.993	2.035	3.637	3.647	3.533
E. coli P[4] with Thimerosal	124	151	MLKYGRRVWF	7.49	4	25	3.665	3.817	3.642	4.484	4.66	4.591	5.68	5.597	5.486	6.889	6.754	6.762	8.935	8.965	9.019	11.833	11.442	11.071
E. coli P[4] with Thimerosal	125	134	LYGGRVWF	8.88	3	8	1.233	1.222	1.168	1.238	1.247	1.208	1.298	1.25	1.237	1.482	1.39	1.43	2.245	2.182	2.052	3.755	3.612	3.593
E. coli P[4] with Thimerosal	125	151	LYGGRVWF	7.17	4	24	4.007	4.104	4.051	4.929	5.085	5.039	6.219	6.049	6.037	7.491	7.388	7.401	9.681	9.711	9.767	12.301	12.147	11.904
E. coli P[4] with Thimerosal	125	153	LYGGRVWF	6.72	4	26	5.763	6.029	5.827	6.826	6.957	6.878	8.112	7.997	8.084	9.639	9.494	9.508	12.021	12.207	12.18	14.951	14.968	14.531
E. coli P[4] with Thimerosal	125	155	LYGGRVWF	7.15	4	28	6.128	6.445	6.215	7.689	7.822	7.853	9.047	9.138	9.16	10.367	10.564	10.712	13.211	13.355	13.362	16.075	16.254	15.966
E. coli P[4] with Thimerosal	135	151	HGETPRATTSSNTADL	4.1	3	14	3.026	3.177	3.121	4.149	4.208	4.324	5.521	5.46	5.413	6.684	6.688	6.668	8.556	8.325	8.276	9.802	9.805	9.645
E. coli P[4] with Thimerosal	135	155	HGETPRATTSSNTADL	4.78	3	18	4.783	4.908	4.754	6.273	6.357	6.284	7.858	7.78	7.793	9.223	8.915	9.083	11.04	11.096	11.112	12.397	12.507	12.324
E. coli P[4] with Thimerosal	154	162	IIHSEF	8.4	2	7	0.157	0.149	0.127	0.205	0.227	0.201	0.477	0.487	0.481	1.059	1.073	1.058	1.59	1.597	1.62	2.396	2.439	2.368
E. coli P[4] with Thimerosal	156	161	IIHSE	3.79	2	4	0.111	0.087	0.125	0.186	0.218	0.387	0.435	0.402	0.936	0.916	0.923	1.23	1.288	1.293	1.604	1.67	1.577	
E. coli P[4] with Thimerosal	156	162	IIHSEF	6.9	2	5	0.127	0.126	0.127	0.198	0.196	0.195	0.441	0.454	0.448	0.979	0.98	0.968	1.303	1.334	1.338	1.729	1.733	1.66
E. coli P[4] with Thimerosal	156	162	IIHSEF	5.6	2	4	0.133	0.102	0.131	0.195	0.2	0.192	0.426	0.441	0.435	0.932	0.925	0.919	1.166	1.237	1.226	1.401	1.477	1.377
E. coli P[4] with Thimerosal	163	170	YIIPRSQE	4.82	2	5	2.185	2.316	2.311	2.5	2.568	2.554	2.796	2.869	2.834	3.183	3.242	3.215	3.291	3.355	3.4	3.322	3.39	3.357
E. coli P[4] with Thimerosal	163	173	YIIPRSQESK	4.63	2	8	3.51	3.493	3.595	3.963	3.906	3.766	4.009	4.03	4.075	4.532	4.713	4.53	4.699	4.63	4.777	4.558	4.746	4.639
E. coli P[4] with Thimerosal	163	175	YIIPRSQESK	4.57	3	10	3.746	3.994	3.983	4.573	4.76	4.8	5.151	5.317	5.208	5.625	5.739	5.627	5.695	5.895	5.929	5.775	5.917	5.777
E. coli P[4] with Thimerosal	174	181	NEVINL	6.32	1	6	0.57	0.667	0.759	1.187	1.381	1.409	2.497	2.455	2.587	3.787	3.822	3.838	4.476	4.518	4.544	4.585	4.591	4.664
E. coli P[4] with 13A1	1	3	MQY	4.26	1	1	1.044	1.025	1.019	1.05	1.031	1.07	1.028	1.022	1.075	1.054	1.062	1.052	1.076	1.058	1.039	1.044	1.067	1.041
E. coli P[4] with 13A1	1	6	MQYKKA	4.99	2	4	3.139	3.321	3.249	3.312	3.186	3.25	3.273	3.253	3.259	3.281	3.287	3.252	3.333	3.317	3.341	3.3	3.31	3.284
E. coli P[4] with 13A1	1	10	MQYKANSKF	5.88	3	8	5.59	5.931	5.801	5.903	5.651	5.849	5.754	5.829	5.848	5.857	5.799	5.909	5.914	5.877	5.864	5.918	5.918	5.795
E. coli P[4] with 13A1	1	12	MQYKANSKFG	6.41	3	10	7.071	7.438	7.264	7.371	7.118	7.249	7.315	7.212	7.263	7.331	7.341	7.279	7.406	7.372	7.362	7.364	7.413	7.271
E. coli P[4] with 13A1	3	10	YIKANSKF	4.36	3	6	4.081	4.486	4.338	4.57	4.411	4.481	4.443	4.378	4.528	4.514	4.493	4.47	4.52	4.53	4.564	4.491	4.536	4.449
E. coli P[4] with 13A1	11	15	IGITE	4.47	1	3	2.727	2.91	2.857	2.889	2.771	2.849	2.866	2.842	2.867	2.892	2.894	2.855	2.932	2.912	2.9	2.898	2.919	2.877
E. coli P[4] with 13A1	11	23	IGITELGSSGVL	8.57	2	11	7.268	7.739	7.447	7.757	7.476	7.749	7.731	7.757	7.838	7.858	7.966	8.153	8.135	8.135	8.425	8.535	8.327	
E. coli P[4] with 13A1	11	37	IGITELGSSGVL	8.8	2	19	9.386	10	9.72	10.3	9.865	10.088	10.651	10.549	10.579	11.421	11.383	11.297	12.634	12.61	12.562	13.872	13.678	13.678
E. coli P[4] with 13A1	13	23	ITELGSSGVL	7.1	1	9	5.206	5.758	5.597	5.673	5.553	5.737	5.517	5.332	5.565	5.506	5.686	5.698	5.632	5.902	5.95	6.104	6.267	6.128
E. coli P[4] with 13A1	13	37	ITELGSSGVL	8.07	2	19	7.662	8.029	7.907	8.337	8.405	8.224	8.792	8.655	8.723	9.46	9.476	9.389	10.689	10.725	10.658	11.951	12.044	11.81
E. coli P[4] with 13A1	16	37	LGSSGVL	7.6	2	16	4.993	5.296	5.151	5.616	5.504	5.644	5.909	5.992	6.793	6.949	6.661	7.946	7.921	7.937	9.175	9.226	9.107	
E. coli P[4] with 13A1	16	38	LGSSGVL	8.24	2	17	4.43	5.444	5.351	5.898	5.516	5.779	6.239	6.055	6.193	5.34	5.987	5.873	6.508	6.41	6.383	7.751	7.813	7.556
E. coli P[4] with 13A1	16	39	LGSSGVL	9.8	3	18	4.572	4.877	4.724	5.175	4.94	5.048	5.625	5.454	5.509	6.214	6.199	6.102	7.255	7.222	7.181	8.367	8.396	8.222
E. coli P[4] with 13A1	17	37	GSSSGVL	7.32	2	15	4.303	4.604	4.417	4.933	4.675	4.862	5.354	5.212	5.329	6.004	6.045	6.004	7.291	7.232	7.18	8.61	8.64	8.531
E. coli P[4] with 13A1	17	39	GSSSGVL	9.61	2	17	4.443	4.627	4.475	4.97	4.8	4.85	5.309	5.271	5.376	6.076	6.077	5.952	7.132	7.089	7.134	8.237	8.223	8.201
E. coli P[4] with 13A1	24	37	DGYPTTFFKPPND	6.14	2	8	2.327	2.516	2.475	2.592	2.556	2.564	2.821	2.787	2.778	3.461	3.482	3.417	4.323	4.254	4.257	5.002	5.06	4.931
E. coli P[4] with 13A1	24	39	DGYPTTFFKPPND	9.19	2	10	2.254	2.399	2.316	2.482	2.366	2.423	2.683	2.694	2.651	3.328	3.315	3.268	4.066	4.062	4.071	4.685	4.69	4.679
E. coli P[4] with 13A1	38	41	YWLL	11.1	1	2	0.03	0.026	0.026	0.024	0.032	0.025	0.028	0.023	0.025	0.023	0.027	0.025	0.023	0.024	0.026	0.025	0.021	0.021
E. coli P[4] with 13A1	40	51	LUSSTNGVY	7.65	2	10	1.844	2.03	1.913	2.73	2.642	2.685	3.519	3.523	3.47	3.768	3.749	3.666	3.897	3.815	3.777	3.885	3.841	3.809
E. coli P[4] with 13A1	40	59	LUSSTNGVY	8.18																				



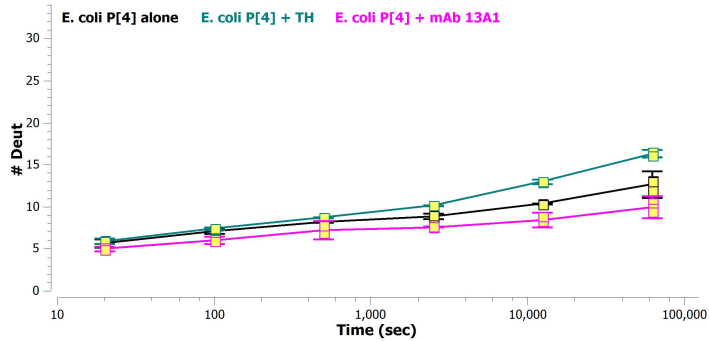
16-37: LGSGSGVLDGPYQPTTFKPPND (#11)**16-38: LGSGSGVLDGPYQPTTFKPPNDY (#12)****16-39: LGSGSGVLDGPYQPTTFKPPNDYW (#13)****17-37: GSGSGVLDGPYQPTTFKPPND (#14)****17-39: GSGSGVLDGPYQPTTFKPPNDYW (#15)****24-37: DGPYQPTTFKPPND (#16)****24-39: DGPYQPTTFKPPNDYW (#17)****38-41: YWLL (#18)****40-51: LLISSNTNGVVY (#19)****40-59: LLISSNTNGVVYESTNNDF (#20)**

41-51: LISSNTNGVVY (#21)**42-59: ISSNTNGVVYESTNNDF (#22)****52-59: ESTNNDF (#23)****59-63: FWTAV (#24)****59-64: FWTAVI (#25)****60-63: WTAV (#26)****60-64: WTAVI (#27)****64-73: IAVEPHVSQT (#28)****64-76: IAVEPHVSQTNRQ (#29)****64-79: IAVEPHVSQTNRQYIL (#30)**

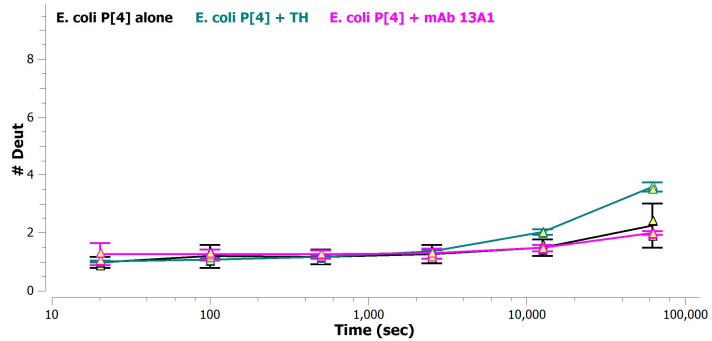
65-73: AVEPHVSQT (#31)**65-76: AVEPHVSQTNRQ (#32)****65-79: AVEPHVSQTNRQYIL (#33)****74-79: NRQYIL (#34)****80-86: FGENKQF (#35)****80-97: FGENKQFNVENNSDKWKF (#36)****84-97: KQFNVENNSDKWKF (#37)****98-100: FEM (#38)****98-109: FEMFKGSSQGDF (#39)****98-121: FEMFKGSSQGDFSNRRRLTSSNRL (#40)**



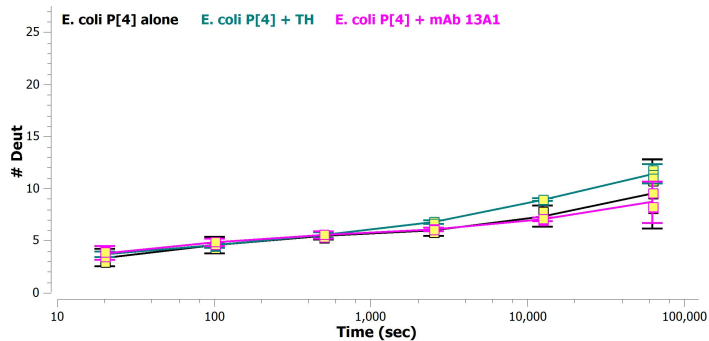
122-155: VGMLKYGGRVWTFHGETPRATTDSSNTADLNNIS (#51)



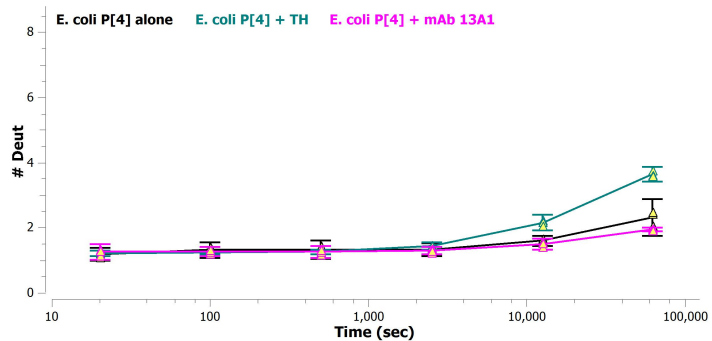
124-134: MLKYGGRVWTF (#52)



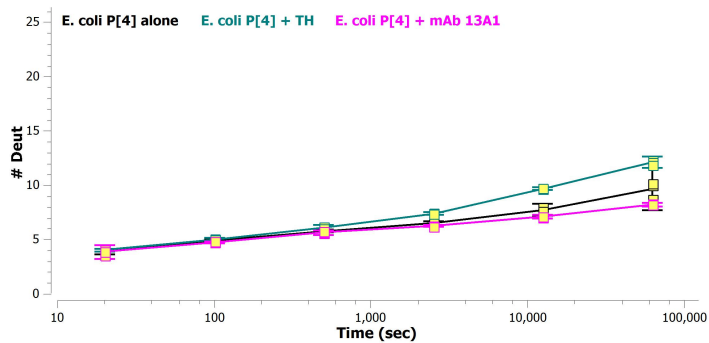
124-151: MLKYGGRVWTFHGETPRATTDSSNTADL (#53)



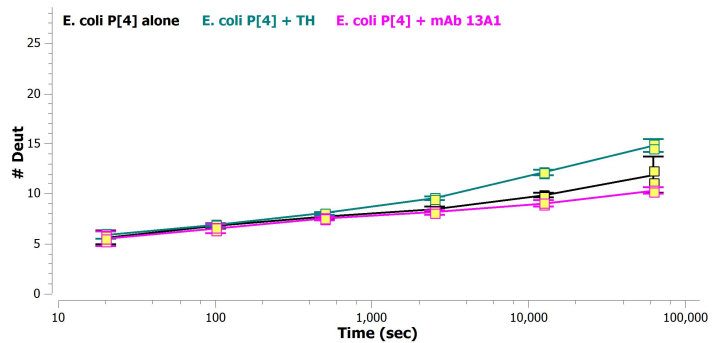
125-134: LKYGGRVWTF (#54)



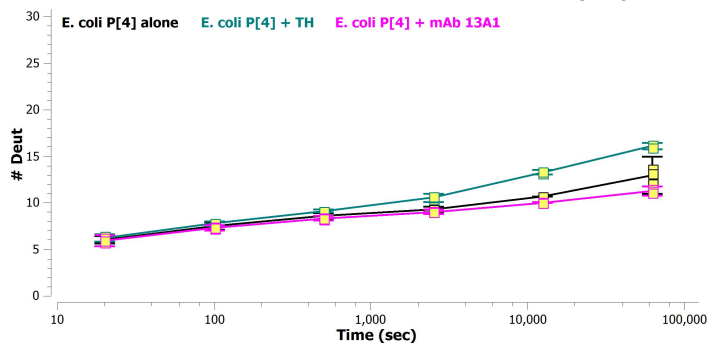
125-151: LKYGGRVWTFHGETPRATTDSSNTADL (#55)



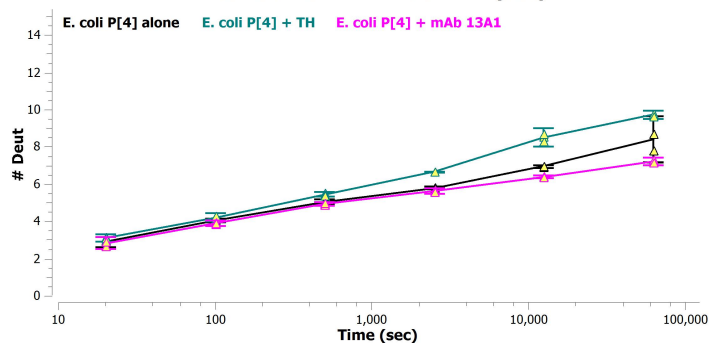
125-153: LKYGGRVWTFHGETPRATTDSSNTADLNN (#56)



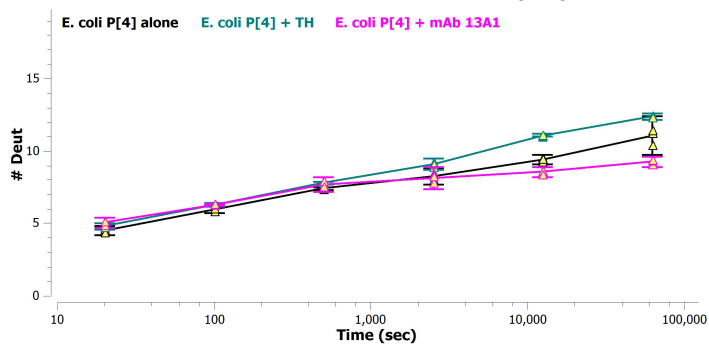
125-155: LKYGGRVWTFHGETPRATTDSSNTADLNNIS (#57)



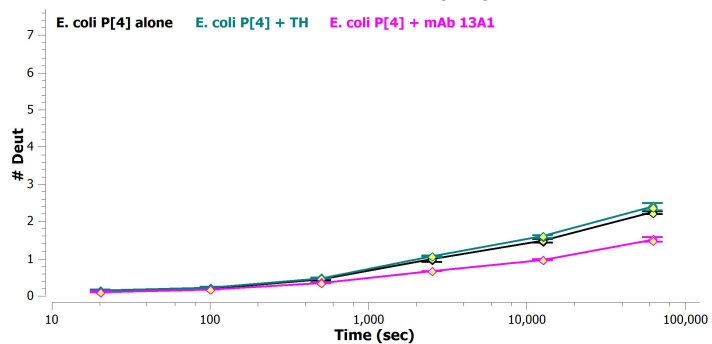
135-151: HGETPRATTDSSNTADL (#58)

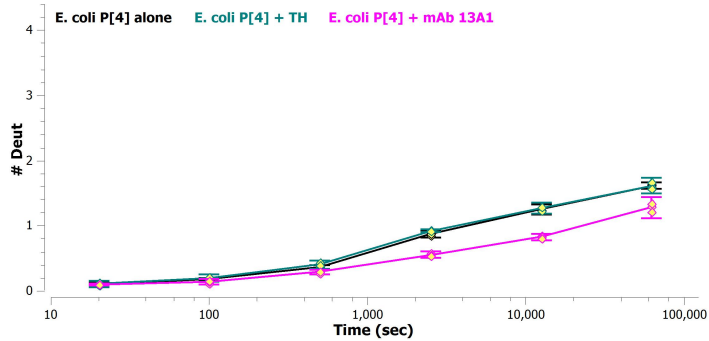
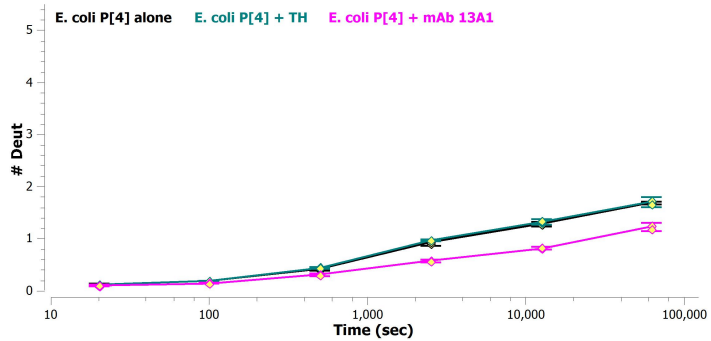
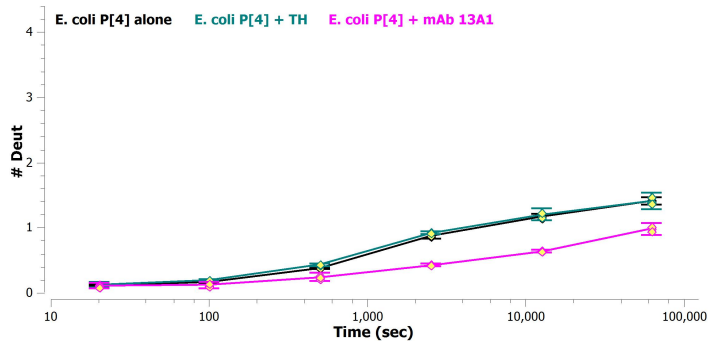
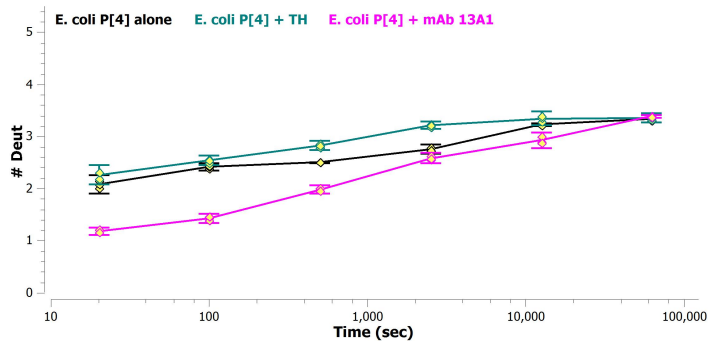
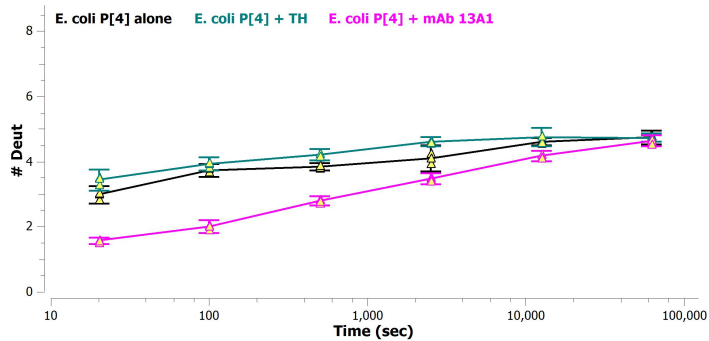
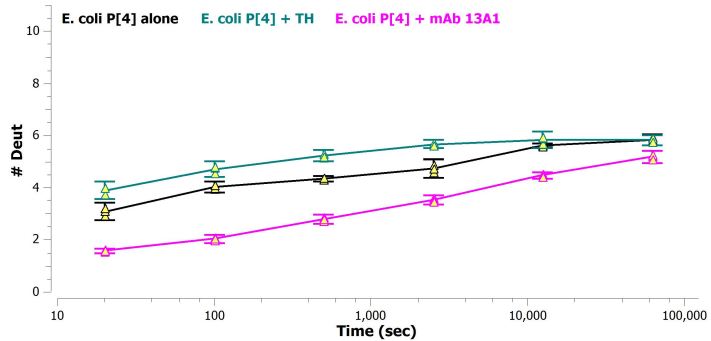
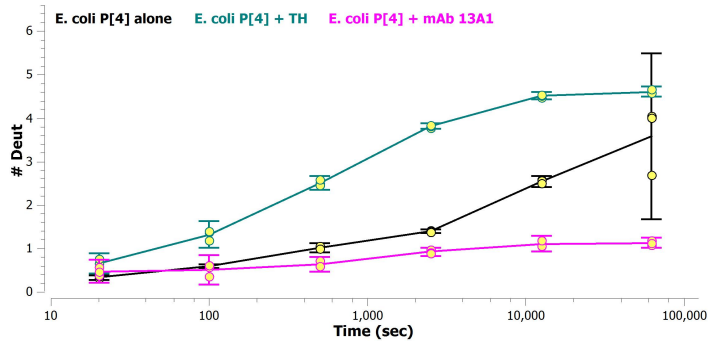


135-155: HGETPRATTDSSNTADLNNIS (#59)



154-162: ISIIHSEF (#60)

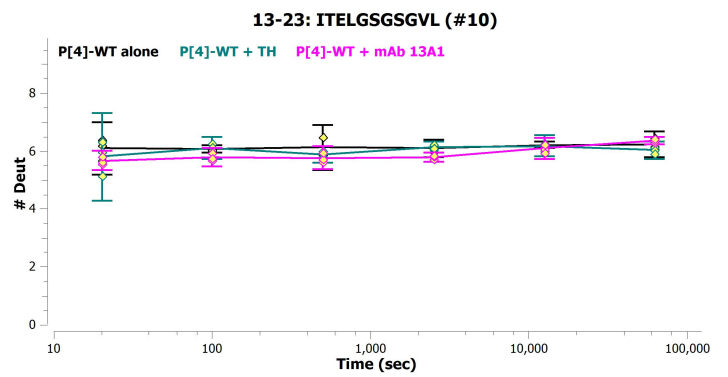
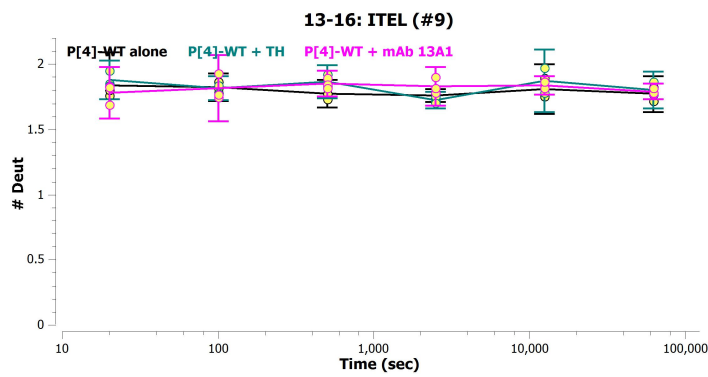
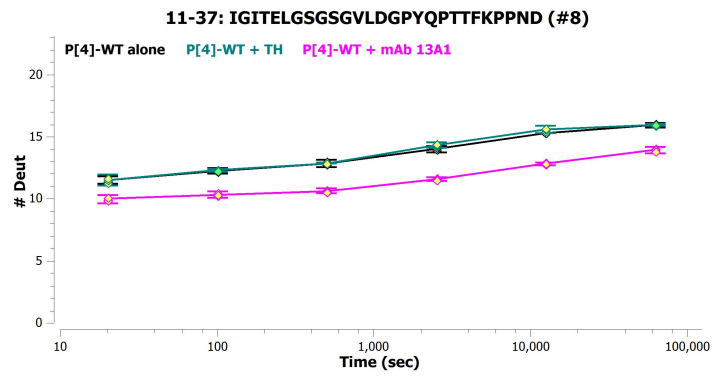
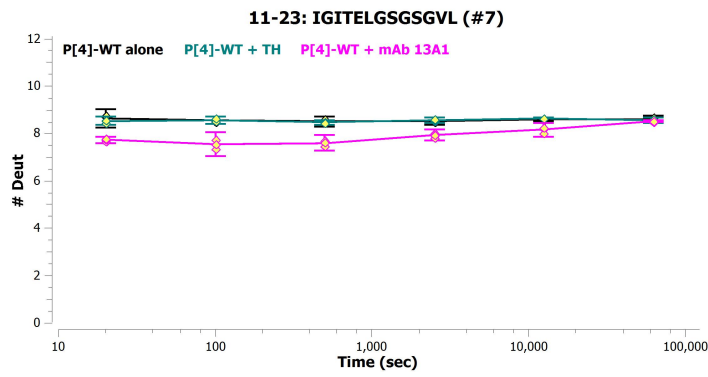
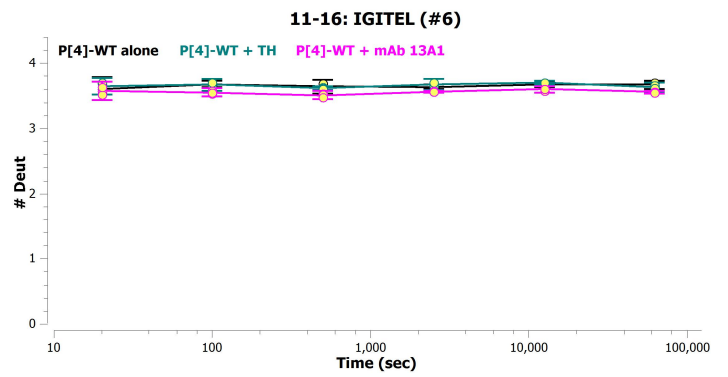
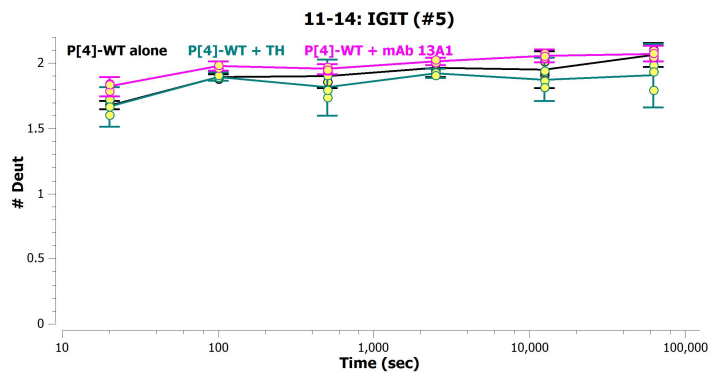
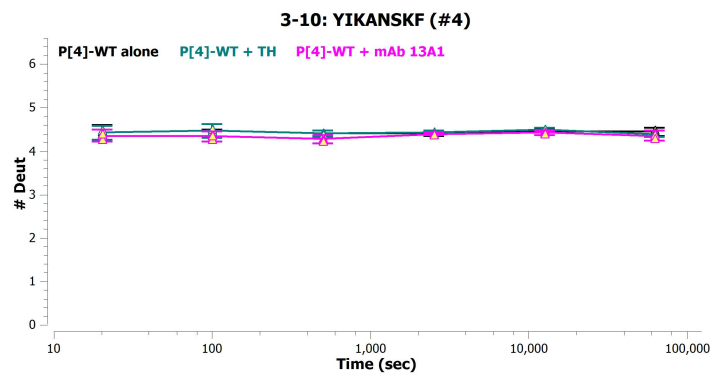
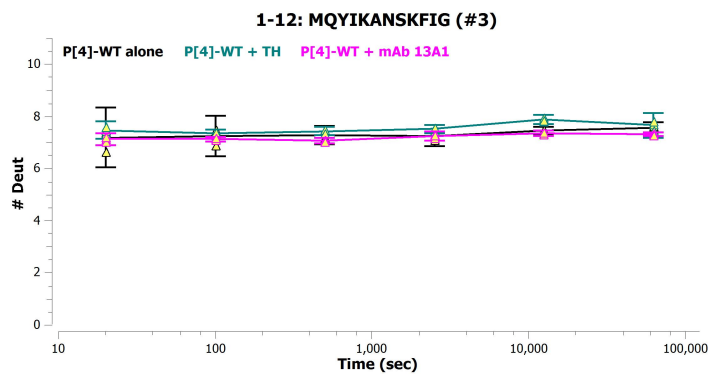
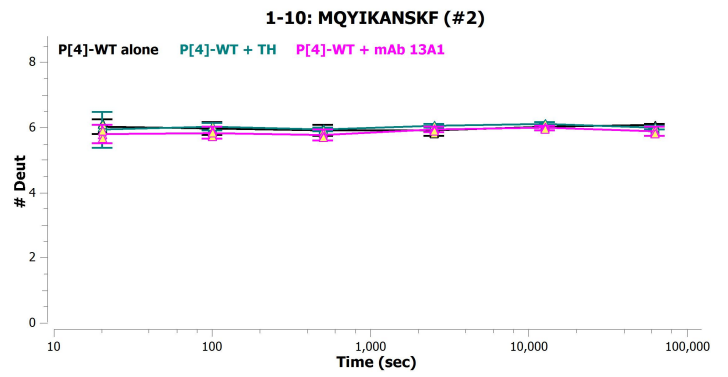
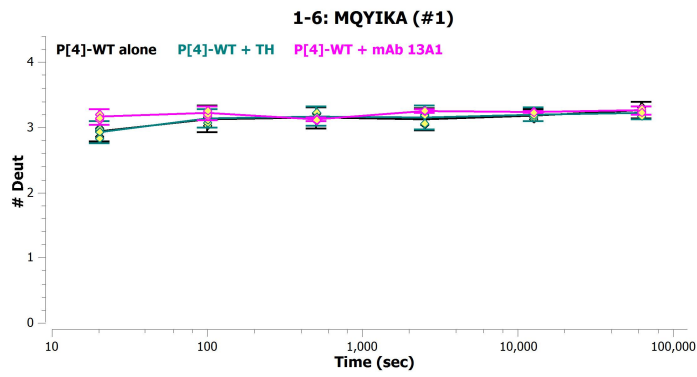


156-161: IIIHSE (#61)**156-162: IIIHSEF (#62)****157-162: IIHSEF (#63)****163-170: YIIPRSQE (#64)****163-173: YIIPRSQESKC (#65)****163-175: YIIPRSQESKCNE (#66)****174-181: NEYINNGL (#67)**

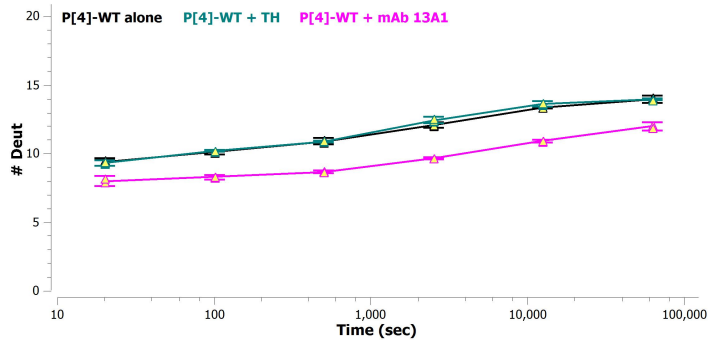
State	Start	End	Sequence	Search RT	Charge	Max D	20s #D	20s #D	20s #D	100s #D	100s #D	100s #D	500s #D	500s #D	500s #D	2500s #D	2500s #D	2500s #D	12500s #D	12500s #D	12500s #D	62500s #D	62500s #D	62500s #D
Pa [4] alone	1	6	MQYIKA	4.94	2	4	2.875	2.999	2.958	3.035	3.173	3.107	3.118	3.224	3.052	3.163	3.177	3.202	3.145	3.217	3.33	3.234	3.252	
Pa [4] alone	1	10	MQYIKANSKF	5.85	3	8	5.993	6.138	5.966	5.898	5.967	6.052	5.832	5.909	5.968	5.836	5.952	5.976	6.036	6.041	6.046	6.073	6.071	6.091
Pa [4] alone	1	12	MQYIKANSKFIG	6.37	3	10	7.51	7.396	6.658	6.902	7.356	7.427	7.208	7.187	7.098	7.417	7.282	7.446	7.411	7.516	7.497	7.611	7.649	7.649
Pa [4] alone	3	10	YIKANSKF	4.31	3	6	4.359	4.499	4.446	4.461	4.479	4.471	4.444	4.393	4.426	4.389	4.423	4.4	4.454	4.448	4.472	4.492	4.42	4.431
Pa [4] alone	11	14	IGIT	3.88	1	2	1.676	1.668	1.692	1.881	1.894	1.903	1.908	1.861	1.936	2.002	1.958	1.945	1.908	1.932	2.019	2.111	2.054	2.041
Pa [4] alone	11	16	IGITEL	7.56	1	4	3.543	3.688	3.611	3.697	3.663	3.692	3.696	3.614	3.637	3.631	3.656	3.631	3.686	3.683	3.661	3.703	3.649	3.67
Pa [4] alone	11	23	IGITELSGSGVL	8.57	2	11	8.727	8.735	8.456	8.484	8.552	8.608	8.593	8.472	8.445	8.469	8.599	8.527	8.563	8.622	8.584	8.667	8.529	8.594
Pa [4] alone	11	37	IGITELSGSGVLDGYPQPTTFKPPND	8.81	2	21	11.647	11.407	12.209	12.162	12.338	12.964	12.744	12.76	13.947	14.13	13.976	15.293	15.299	15.298	16.036	15.879	15.903	15.903
Pa [4] alone	13	16	ITEL	4.88	1	2	1.955	1.761	1.805	1.785	1.869	1.816	1.731	1.778	1.816	1.774	1.775	1.738	1.755	1.898	1.782	1.827	1.717	1.781
Pa [4] alone	13	23	ITELSGSGVL	7.09	2	9	6.198	6.406	5.689	6.067	6.145	6.047	6.49	6.019	5.901	5.969	6.175	6.186	6.241	6.241	6.163	6.447	6.187	6.089
Pa [4] alone	13	37	ITELSGSGVLDGYPQPTTFKPPND	8.06	2	19	9.446	9.535	9.399	10.038	10.189	10.283	11.105	10.85	10.927	12.072	12.225	12.209	13.423	13.443	13.449	14.127	14.022	14.023
Pa [4] alone	15	37	ELSGSGVLDGYPQPTTFKPPND	7.79	2	17	7.394	7.545	7.276	8.191	8.089	8.202	9.4	9.192	9.257	10.534	10.644	10.562	11.692	11.777	11.65	12.418	12.238	12.29
Pa [4] alone	16	37	LGSGSGVLDGYPQPTTFKPPND	7.58	3	16	6.594	6.85	6.699	7.402	7.451	7.492	8.149	8.03	8.072	9.178	9.273	9.278	10.539	10.564	10.52	11.223	11.121	11.126
Pa [4] alone	16	38	LGSGSGVLDGYPQPTTFKPPNDY	8.21	2	17	6.467	6.742	6.502	7.432	7.413	7.462	8.166	7.906	7.966	9.063	9.181	9.126	10.46	10.489	10.417	11.138	11.027	11.089
Pa [4] alone	16	39	LGSGSGVLDGYPQPTTFKPPNDYW	9.78	3	18	6.08	6.353	6.215	6.897	6.98	7.027	7.512	7.472	7.502	8.403	8.573	8.564	9.774	9.858	9.82	10.482	10.438	10.411
Pa [4] alone	17	37	SGSGSGVLDGYPQPTTFKPPND	7.31	2	15	6.115	6.374	6.173	6.934	6.992	7.031	7.674	7.67	8.875	8.996	8.861	10.301	10.296	10.261	11.024	10.854	10.804	10.891
Pa [4] alone	17	39	SGSGSGVLDGYPQPTTFKPPNDYW	9.59	2	17	5.77	5.988	5.848	6.512	6.682	6.731	7.205	7.174	7.257	8.261	8.425	8.368	9.565	9.615	9.589	10.343	10.218	10.202
Pa [4] alone	24	37	DGYPQPTTFKPPND	6.11	2	8	2.454	2.553	2.539	2.774	2.781	2.821	3.348	3.326	3.352	4.424	4.469	4.507	5.686	5.709	5.699	6.338	6.335	6.314
Pa [4] alone	24	39	DGYPQPTTFKPPNDYW	9.15	2	10	2.44	2.286	2.415	2.652	2.588	2.69	3.346	3.315	3.216	4.27	4.291	4.278	5.332	5.369	5.368	6.068	6	5.935
Pa [4] alone	38	41	YWLL	11.07	1	2	0.017	0.015	0.021	0.025	0.015	0.01	0.007	0.005	0.002	0.011	0.003	0.005	0.004	0.002	0.002	0.003	0.01	0.004
Pa [4] alone	40	51	LUSNTNGVVY	7.62	1	10	3.394	3.572	3.467	3.964	3.783	3.874	3.84	3.852	3.839	4.045	4.033	4.049	4.572	4.575	4.594	5.088	5.069	5.053
Pa [4] alone	40	59	LUSNTNGVVYESTNNDF	8.16	2	18	3.422	3.745	3.694	3.974	4.014	4.081	4.115	4.144	4.175	4.427	4.548	4.519	5.274	5.333	5.304	6.12	6.147	6.111
Pa [4] alone	41	51	LSNTNGVVY	6.14	1	9	3.39	3.581	3.435	3.765	3.845	3.838	3.938	3.909	3.987	3.962	4.098	4.41	4.542	4.561	4.956	4.911	5	5.004
Pa [4] alone	42	51	LSNTNGVVY	5.31	2	8	3.38	3.54	3.455	3.665	3.704	3.793	3.832	3.762	3.808	3.94	3.976	3.998	4.373	4.359	4.368	4.483	4.426	4.459
Pa [4] alone	42	59	LSNTNGVVYESTNNDF	6.8	2	16	3.58	3.79	3.735	3.975	4.058	4.093	4.154	4.167	4.159	4.497	4.566	4.551	5.256	5.254	5.346	5.836	5.831	5.813
Pa [4] alone	49	59	VVYESTNNDF	6.04	1	9	0.299	0.281	0.247	0.34	0.272	0.278	0.418	0.4	0.297	0.691	0.683	0.695	1.169	1.269	1.185	1.717	1.551	1.686
Pa [4] alone	52	59	ESTNNDF	4.25	1	6	0.175	0.198	0.186	0.232	0.229	0.202	0.296	0.287	0.299	0.607	0.667	0.594	1.14	1.121	1.119	1.626	1.595	1.579
Pa [4] alone	59	63	FWTAV	8.09	1	3	0.035	0.039	0.034	0.074	0.028	0.019	0.051	0.042	0.022	0.049	0.029	0.028	0.044	0.028	0.036	0.043	0.045	0.038
Pa [4] alone	59	64	FWTAVI	9.72	1	4	-0.019	-0.006	0.09	0.018	-0.049	-0.059	-0.056	-0.063	-0.047	-0.064	-0.062	-0.061	-0.051	-0.075	-0.093	-0.033	-0.065	-0.06
Pa [4] alone	60	63	WTAV	5.53	1	2	0.033	0.031	0.025	0.03	0.024	0.02	0.025	0.024	0.024	0.026	0.023	0.026	0.022	0.024	0.02	0.026	0.023	0.026
Pa [4] alone	60	64	WTAVI	7.79	1	3	0.032	0.031	0.028	0.035	0.022	0.032	0.029	0.023	0.023	0.024	0.018	0.025	0.021	0.028	0.023	0.023	0.021	0.027
Pa [4] alone	64	73	IAPVPHVSQT	4.06	2	7	1.478	1.541	1.502	1.927	1.965	1.982	2.282	2.272	2.289	2.439	2.452	2.454	2.918	2.902	2.91	3.361	3.367	3.366
Pa [4] alone	64	76	IAPVPHVSNTRQ	3.61	2	10	2.73	2.828	2.766	3.501	3.571	3.557	4.081	4.05	4.065	4.356	4.381	4.378	5.248	5.257	5.221	5.904	5.827	5.859
Pa [4] alone	64	79	IAPVPHVSNTRQYL	7.03	2	13	2.747	2.805	2.71	3.825	3.769	3.691	4.542	4.379	4.357	4.78	4.851	4.772	5.518	5.533	5.448	6.905	6.072	6.096
Pa [4] alone	65	73	IAVPHVSQT	3.14	2	6	1.458	1.539	1.523	1.93	1.978	2.003	2.299	2.352	2.283	2.446	2.491	2.48	2.974	2.972	2.973	3.407	3.46	3.416
Pa [4] alone	65	76	IAVPHVSNTRQ	2.9	3	9	2.763	2.866	2.811	3.565	3.636	3.565	4.15	4.137	4.156	4.435	4.451	4.476	5.378	5.358	5.366	6.009	6.001	6.017
Pa [4] alone	74	79	NRQYL	6.43	2	4	0.738	0.67	0.682	1.342	1.325	1.295	1.77	1.701	1.771	1.8	1.757	1.776	1.854	1.847	1.832	1.813	1.851	1.862
Pa [4] alone	80	86	FGENKQF	5.15	2	5	1.273	1.343	1.295	1.44	1.447	1.437	1.452	1.419	1.429	1.45	1.46	1.458	1.626	1.615	1.601	2.05	2.034	2.028
Pa [4] alone	80	87	FGENKQFVNNNSDKWKF	8.05	4	16	2.476	2.764	2.681	3	2.911	2.894	3.353	3.206	3.14	4.216	4.192	4.152	5.347	5.345	5.3	6.351	6.179	6.095
Pa [4] alone	84	97	KQFVNNNSDKWKF	7.44	4	12	1.09	1.44	1.276	1.527	1.463	1.42	1.891	1.626	1.614	2.778	2.557	2.598	3.846	3.554	3.583	4.561	4.263	4.176
Pa [4] alone	98	100	FEM	6.19	1	1	0.034	0.031	0.03	0.03	0.025	0.027	0.019	0.028	0.025	0.023	0.027	0.021	0.017	0.022	0.023	0.026	0.025	0.025
Pa [4] alone	98	121	FEMFKGSGQDFNSNRRLLTSSNRL	7.15	3	22	7.168	6.938	6.304	7.535	7.655	7.786	7.627	7.838	7.757	7.924	8.156	8.252	8.551	8.783	8.417	9.138	8.857	8.59
Pa [4] alone	98	123	FEMFKGSGQDFNSNRRLLTSSNRLV	7.21	4	24	7.734	6.597	6.092	7.653	7.121	7.384	7.647	7.418	7.322	7.728	7.721	7.86	8.095	8.205	8.189	9.018	8.367	8.306
Pa [4] alone	101	109	FKGSGQDF	4.82	2	7	3.867	4.059	3.92	4.25	4.318	4.271	4.495	4.393	4.42	4.429	4.481	4.448	4.642	4.579	4.561	4.62	4.571	4.541
Pa [4] alone	101	121	FKGSGQDFNSNRRLLTSSNRL	5.25	3	19	7.157	7.926	7.681	8.987	8.826	8.646	9.524	9.123	8.922	9.499	9.429	9.447	10.071	9.848	9.697	10.479	10.077	9.841
Pa [4] alone	101	123	FKGSGQDFNSNRRLLTSSNRLV	5.42	4	21	7.872	7.594	7.203	8.443	8.418	8.204	9.034	8.691	8.582	9.13	9.033	8.981	9.772	9.417	9.404	10.331	9.836	9.6
Pa [4] alone	101	125	FKGSGQDFNSNRRLLTSSNRLVGLM	7.73	4	23	6.949	7.361	7.29	7.702	7.905	7.908	8.671	8.338	8.333	8.19	8.387	8.411	8.579	8.609	8.656	9.224	9.417	9.034
Pa [4] alone	122	134	VGMKLYGGRVWF	9.49	3	11	0.875	1.194	1.092	1.463	1.326	1.229	1.485	1.293	1.21	1.455	1.335	1.235	1.814	1.674	1.566	2.725	2.589	2.102
Pa [4] alone	122	143	VGMKLYGGRVWFHGETPRATT	7.38	4	19	1.192	2.368	1.888	2.983	3.068	2.52	3.148	2.724	2.833	3.41	2.844	2.888	4.19	4.94	2.967	5.159	5.846	4.913
Pa [4] alone	122	147	VGMKLYGGRVWFHGETPRATDSSN	7.33	4	23	2.516	2.719	2.79	3.203	2.795	2.931	3.746	3.256	3.07	3.764	3.599</							

Pp [4] with Thimerosal	64	73	IAVEPHVSQT	4.06	2	7	1.491	1.503	1.503	1.971	1.955	1.958	2.304	2.269	2.298	2.475	2.454	2.465	2.897	2.93	2.914	3.371	3.336	3.357
Pp [4] with Thimerosal	64	76	IAVEPHVSTNRQ	3.61	2	10	2.725	2.729	2.869	3.595	3.482	3.53	4.131	4.081	4.058	4.416	4.436	4.553	5.234	5.36	5.348	5.882	5.804	5.789
Pp [4] with Thimerosal	64	79	IAVEPHVSQTNRQYL	7.03	2	13	2.81	2.882	3.04	3.861	3.738	3.742	4.511	4.477	4.478	4.882	4.886	4.928	5.777	5.737	5.697	6.037	5.974	6.044
Pp [4] with Thimerosal	65	73	IAVEPHVSQT	3.14	2	6	1.522	1.466	1.531	2.054	1.946	2.013	2.326	2.294	2.298	2.504	2.463	2.508	2.927	2.922	2.96	3.439	3.368	3.391
Pp [4] with Thimerosal	65	76	IAVEPHVSTNRQ	2.9	3	9	2.772	2.755	2.848	3.624	3.582	3.623	4.197	4.174	4.174	4.515	4.514	4.522	4.947	5.343	5.469	6.013	5.948	5.902
Pp [4] with Thimerosal	74	79	NRQYL	6.43	2	4	0.7	0.738	0.715	1.269	1.282	1.306	1.789	1.791	1.77	1.816	1.834	1.786	1.844	1.911	1.871	1.874	1.809	1.865
Pp [4] with Thimerosal	80	86	FGENKQF	5.15	2	5	1.302	1.288	1.345	1.464	1.421	1.447	1.461	1.421	1.431	1.471	1.488	1.491	1.623	1.662	1.667	2.079	2.052	2.059
Pp [4] with Thimerosal	80	97	FGENKQFVNNNSDKWKF	8.05	4	16	2.653	2.583	2.804	2.952	2.886	2.835	3.206	3.174	3.151	4.179	4.193	4.225	5.271	5.403	5.399	6.168	6.125	6.188
Pp [4] with Thimerosal	84	97	KQFVNNNSDKWKF	7.44	4	12	1.338	1.278	1.45	1.497	1.43	1.322	1.689	1.667	1.614	2.567	2.628	2.554	3.1	3.602	3.687	4.284	4.184	4.249
Pp [4] with Thimerosal	98	100	FEM	6.19	1	1	0.029	0.036	0.03	0.027	0.02	0.022	0.022	0.016	0.02	0.023	0.025	0.024	0.028	0.034	0.036	0.035	0.037	0.039
Pp [4] with Thimerosal	98	121	FEMFKGSSQDGSNRRTLTSSNRL	7.15	3	22	6.414	6.41	7.052	7.397	7.427	8.053	7.925	7.672	7.797	8.466	8.643	8.485	9.053	9.426	9.286	9.834	9.833	10.147
Pp [4] with Thimerosal	98	123	FEMFKGSSQDGSNRRTLTSSNRLVGL	7.21	4	24	6.408	6.878	7.559	7.459	7.23	7.288	7.819	7.496	7.745	8.271	8.125	8.13	8.868	9.528	9.609	9.577	10.332	
Pp [4] with Thimerosal	101	109	FKGSSQDGF	4.82	2	7	3.901	3.81	3.925	4.3	4.192	4.254	4.426	4.363	4.415	4.476	4.479	4.472	4.51	4.573	4.562	4.514	4.43	4.478
Pp [4] with Thimerosal	101	121	FKGSSQDGSNRRTLTSSNRL	5.25	3	19	7.681	7.655	8.171	8.799	8.653	8.679	9.224	8.998	9.025	9.689	9.681	10.024	10.061	10.7	10.66	11.265	11.017	11.362
Pp [4] with Thimerosal	101	123	FKGSSQDGSNRRTLTSSNRLVGL	5.42	4	21	7.241	6.916	7.714	8.32	8.279	8.088	8.81	8.555	8.564	9.363	9.279	9.258	9.969	10.083	10.221	11.533	11.26	11.375
Pp [4] with Thimerosal	101	125	FKGSSQDGSNRRTLTSSNRLVGLM	7.73	4	23	7.331	7.123	7.491	8.439	8.28	7.844	8.528	8.149	8.45	8.864	8.942	9.066	9.668	10.045	11.023	11.383	11.353	11.78
Pp [4] with Thimerosal	122	134	VGLMKYGGRRVWF	9.49	3	11	1.036	0.833	1.083	1.185	1.205	1.119	1.209	1.186	1.248	1.412	1.399	1.313	2.129	2.224	2.292	2.425	4.386	4.497
Pp [4] with Thimerosal	122	143	VGLMKYGGRRVWFHGETPRATT	7.38	4	19	1.849	1.374	2.635	2.505	2.442	2.493	2.966	3.182	3.249	3.164	3.815	4.681	5.204	5.639	7.9	7.671	7.715	
Pp [4] with Thimerosal	122	147	VGLMKYGGRRVWFHGETPRATDSSN	7.33	4	23	2.766	2.197	2.561	3.503	2.753	2.931	3.39	3.29	3.675	4.384	4.546	4.42	4.326	8.037	7.372	10.175	9.856	10.15
Pp [4] with Thimerosal	122	153	VGLMKYGGRRVWFHGETPRATDSSNTADLN	7.44	4	29	5.897	5.63	6.012	7.3	7.211	6.873	8.056	8.063	8.142	9.4	9.539	10.011	11.996	12.855	12.646	15.173	14.987	15.292
Pp [4] with Thimerosal	122	155	VGLMKYGGRRVWFHGETPRATDSSNTADLNNS	7.74	4	31	6.069	6.163	6.241	7.747	7.731	7.743	8.89	8.953	8.9	10.291	10.379	10.516	13.463	13.511	13.254	16.311	16.411	16.717
Pp [4] with Thimerosal	124	134	MLKYGGRRVWF	9.16	3	9	1.075	0.835	1.026	1.21	1.194	1.104	1.256	1.187	1.199	1.415	1.339	1.332	2.013	2.062	2.047	3.63	3.64	3.801
Pp [4] with Thimerosal	124	151	MLKYGGRRVWFHGETPRATDSSNTADL	7.45	4	25	3.838	3.543	3.908	4.812	5.044	4.802	5.736	5.637	5.762	6.892	6.963	7.175	8.868	9.277	9.306	11.532	11.197	11.483
Pp [4] with Thimerosal	124	155	MLKYGGRRVWFHGETPRATDSSNTADLNNS	7.41	4	29	6.12	6.146	6.254	7.665	7.618	7.562	8.93	8.897	8.698	10.188	10.494	10.344	13.348	13.503	13.552	16.207	15.879	16.275
Pp [4] with Thimerosal	125	134	LYKGGRRVWF	8.82	3	8	1.243	1.032	1.348	1.385	1.357	1.215	1.418	1.356	1.362	1.581	1.524	1.458	2.219	2.242	2.27	3.745	3.559	3.783
Pp [4] with Thimerosal	125	151	LYKGGRRVWFHGETPRATDSSNTADL	7.14	4	24	4.349	4.276	4.601	5.527	5.434	5.174	6.278	6.259	6.279	7.615	7.705	7.689	9.552	9.878	10.078	12.467	12.052	12.844
Pp [4] with Thimerosal	125	155	LYKGGRRVWFHGETPRATDSSNTADLNNS	6.68	4	26	6.26	6.244	5.995	7.371	7.318	7.23	8.402	8.275	8.375	9.932	9.878	10.18	12.34	12.516	12.692	15.16	14.694	15.192
Pp [4] with Thimerosal	125	155	LYKGGRRVWFHGETPRATDSSNTADLNNS	7.12	4	28	6.376	6.737	6.627	8.284	8.148	8.209	9.447	9.227	9.249	10.934	10.972	11.095	13.514	13.754	13.828	16.276	16.211	16.342
Pp [4] with Thimerosal	126	155	KYGGRRVWFHGETPRATDSSNTADLNNS	6.74	4	27	6.486	6.51	6.62	8.139	8.1	8.152	9.427	9.371	9.369	10.949	11.029	11.079	13.667	13.858	14.004	16.338	16.107	16.492
Pp [4] with Thimerosal	135	151	HGETPRATDSSNTADL	4.06	3	14	3.101	3.055	3.288	4.407	4.369	4.417	5.526	5.522	5.582	6.761	6.76	6.672	8.72	8.933	8.905	9.816	9.69	9.826
Pp [4] with Thimerosal	135	155	HGETPRATDSSNTADLNNS	4.73	3	18	4.664	4.781	4.887	6.604	6.456	6.537	8.028	7.984	7.916	9.359	9.284	9.27	11.368	11.422	12.574	12.481	12.645	
Pp [4] with Thimerosal	154	162	SIHSEF	8.38	2	7	0.138	0.139	0.157	0.237	0.225	0.211	0.514	0.516	0.506	1.132	1.126	1.142	1.701	1.74	1.759	2.469	2.46	2.488
Pp [4] with Thimerosal	156	161	HIHSE	3.75	2	4	0.111	0.119	0.142	0.208	0.188	0.206	0.446	0.43	0.45	0.941	0.916	0.943	1.28	1.355	1.346	1.664	1.618	1.618
Pp [4] with Thimerosal	156	162	HIHSEF	6.87	2	5	0.129	0.146	0.147	0.231	0.21	0.216	0.493	0.476	0.474	1.014	1.025	1.031	1.339	1.391	1.392	1.711	1.691	1.71
Pp [4] with Thimerosal	157	162	HIHSE	5.54	2	4	0.107	0.122	0.163	0.204	0.173	0.189	0.458	0.439	0.453	0.935	0.935	0.976	1.2	1.267	1.26	1.438	1.407	1.388
Pp [4] with Thimerosal	158	162	HSSEF	6.86	1	3	0.233	0.19	0.182	0.255	0.258	0.264	0.494	0.51	0.499	1.033	1.008	1.019	1.24	1.25	1.239	1.525	1.424	1.464
Pp [4] with Thimerosal	163	170	YIPRSQE	4.77	2	5	2.298	2.262	2.386	2.643	2.614	2.626	2.936	2.891	2.931	3.284	3.286	3.31	3.385	3.426	3.432	3.391	3.39	3.383
Pp [4] with Thimerosal	163	173	YIPRSQESKC	4.58	2	8	3.561	3.645	4.026	4.342	4.25	4.21	4.486	4.629	4.485	4.809	4.809	4.857	4.806	4.975	4.978	4.851	4.821	4.855
Pp [4] with Thimerosal	163	175	YIPRSQESKCN	4.53	3	10	4.007	4.079	4.358	5.096	5.01	5.043	5.526	5.509	5.551	5.917	5.939	6	5.996	6.189	6.188	6	5.911	5.931
Pp [4] with Thimerosal	174	181	NEVINYL	6.28	2	6	0.541	0.601	0.84	1.382	1.351	1.16	2.252	2.271	2.289	3.77	3.813	3.661	4.346	4.34	4.246	4.388	4.425	4.558
Pp [4] with Thimerosal	176	181	YINYL	5.26	2	4	0.349	0.435	0.464	0.987	1.092	1.104	1.74	1.77	1.824	2.653	2.69	2.675	2.968	3.012	2.961	2.955	2.966	2.982
Pp [4] with Thimerosal	1	6	MCQYKA	4.94	2	4	2.315	3.126	3.149	3.186	3.205	3.266	3.137	3.114	3.12	3.247	3.262	3.27	3.25	3.243	3.239	3.263	3.295	3.244
Pp [4] with Thimerosal	1	10	MCQYKANSKF	5.85	3	8	5.807	5.677	5.902	5.905	5.754	5.85	5.84	5.733	5.717	5.979	5.939	5.906	6.021	5.97	5.963	5.922	5.916	5.818
Pp [4] with Thimerosal	1	12	MCQYKANSKFIG	6.37	3	10	7.146	7.043	7.228	7.128	7.114	7.18	7.119	7.091	7.033	7.179	7.308	7.302	7.394	7.312	7.389	7.326	7.343	7.297
Pp [4] with Thimerosal	3	10	YIKANSKF	4.31	3	6	4.361	4.296	4.411	4.385	4.296	4.366	4.318	4.266	4.245	4.417	4.399	4.387	4.453	4.439	4.468	4.388	4.299	
Pp [4] with Thimerosal	11	14	IGIT	3.88	1	2	1.79	1.847	1.836	1.988	1.966	1.991	1.976	1.946	1.953	2.017	2.007	2.029	2.079	2.041	2.057	2.051	2.098	2.079
Pp [4] with Thimerosal	11	16	IGITEL	7.56	1	4	3.581	3.524	3.633	3.584	3.566	3.552	3.514	3.518	3.486	3.563	3.576	3.57	3.614	3.579	3.614	3.556	3.572	3.554
Pp [4] with Thimerosal	11	23	IGITELSSGSGVL	8.57	2	11	7.672	7.588	7.765	7.759	7.35	7.529	7.456	7.723	7.611	8.015	7.829	7.942	8.191	8.204	8.243	8.521	8.492	8.506
Pp [4] with Thimerosal	11	37	IGITELSSGSGVLDGPYQPTTFKPPND	8.81	2	21	9.954	9.898	10.134	10.469	10.263	10.723	10.631	10.581	11.633	11.155	11.528	12.895	12.805	12.822	14.026	13.942	13.833	
Pp [4] with Thimerosal	13	16	ITEL	4.88	1	2	1.83	1.689	1.826	1.745	1.769	1.933	1.898	1.844	1.82	1.786	1.901	1.815	1.825	1.818	1.87	1.777	1.78	1.82

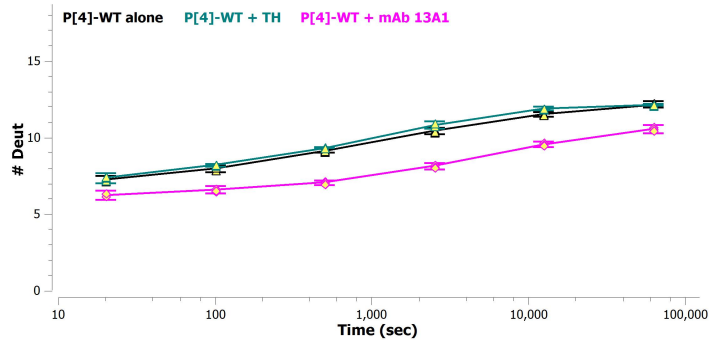
Pp P[4] with 13A1	156	162	IIHSEF	6.87	2	5	0.115	0.12	0.118	0.176	0.178	0.174	0.35	0.331	0.344	0.619	0.608	0.611	0.886	0.852	0.859	1.272	1.25	1.187
Pp P[4] with 13A1	157	162	IIHSEF	5.54	2	4	0.082	0.072	0.14	0.138	0.143	0.133	0.27	0.235	0.228	0.444	0.428	0.449	0.655	0.663	0.632	0.982	1.001	0.885
Pp P[4] with 13A1	158	162	IIHSEF	6.86	1	3	0.173	0.485	0.358	0.262	0.414	0.394	0.476	0.513	0.719	0.876	0.787	0.839	1.012	1.039	1.083	1.276	1.276	1.257
Pp P[4] with 13A1	163	170	YIIPRSQE	4.77	2	5	1.189	1.225	1.289	1.446	1.456	1.426	1.944	1.902	1.907	2.618	2.633	2.622	3.034	3.065	3.026	3.41	3.438	3.389
Pp P[4] with 13A1	163	173	YIIPRSQESKC	4.58	2	8	1.987	1.942	2.037	2.509	2.436	2.5	3.012	3.153	3.124	3.849	3.756	3.781	4.484	4.444	4.439	5.023	4.769	4.801
Pp P[4] with 13A1	163	175	YIIPRSQESKCNE	4.53	3	10	1.672	1.681	1.743	2.134	2.036	2.096	2.79	2.681	2.684	3.65	3.599	3.61	4.623	4.536	4.501	5.303	5.257	5.104
Pp P[4] with 13A1	174	181	NEYINNGL	6.28	2	6	0.392	0.375	0.466	0.546	0.438	0.512	0.777	0.636	0.757	1.094	1.005	0.978	1.218	1.237	1.207	1.329	1.205	1.38
Pp P[4] with 13A1	176	181	YINNGL	5.26	2	4	0.166	0.165	0.187	0.254	0.225	0.235	0.406	0.435	0.444	0.765	0.729	0.765	0.93	0.926	0.921	1.013	1.009	1.012



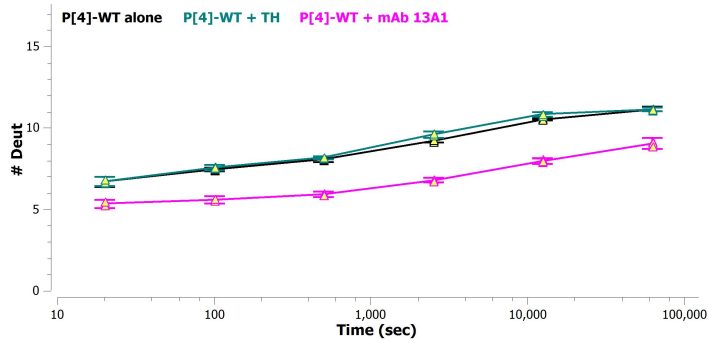
13-37: ITELGSGSGVLDGPYQPTTFKPPND (#11)



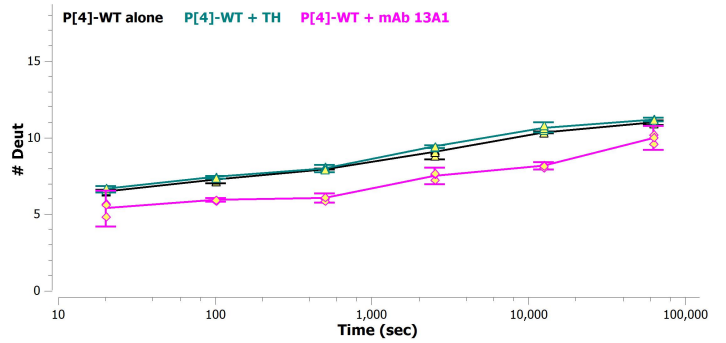
15-37: ELGSGSGVLDGPYQPTTFKPPND (#12)



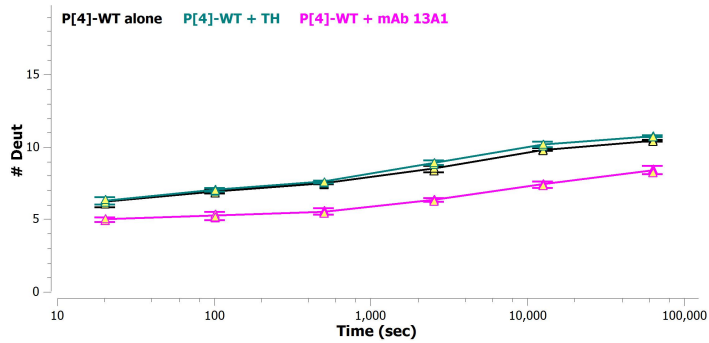
16-37: LGSGSGVLDGPYQPTTFKPPND (#13)



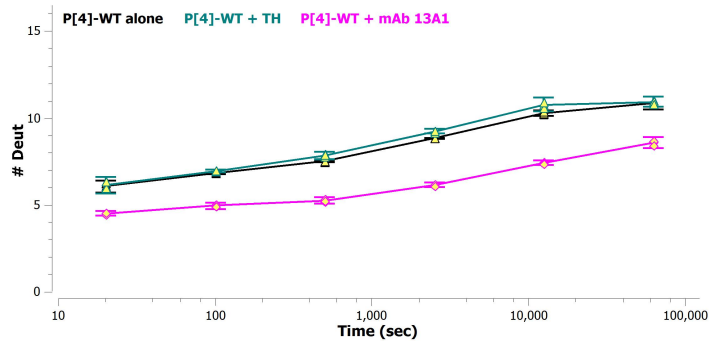
16-38: LGSGSGVLDGPYQPTTFKPPNDY (#14)



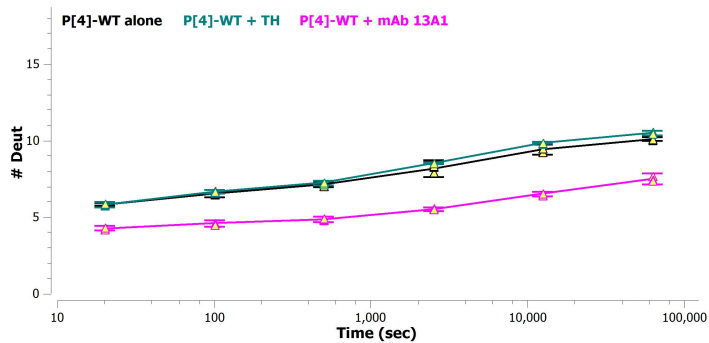
16-39: LGSGSGVLDGPYQPTTFKPPNDYW (#15)



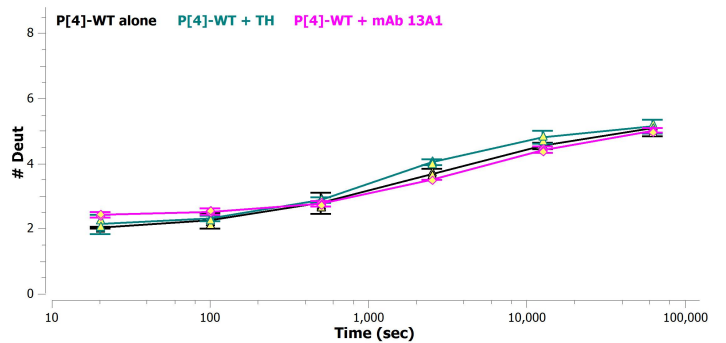
17-37: GSGSGVLDGPYQPTTFKPPND (#16)



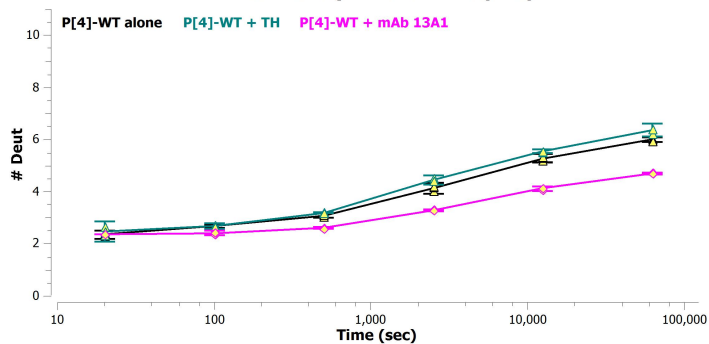
17-39: GSGSGVLDGPYQPTTFKPPNDYW (#17)



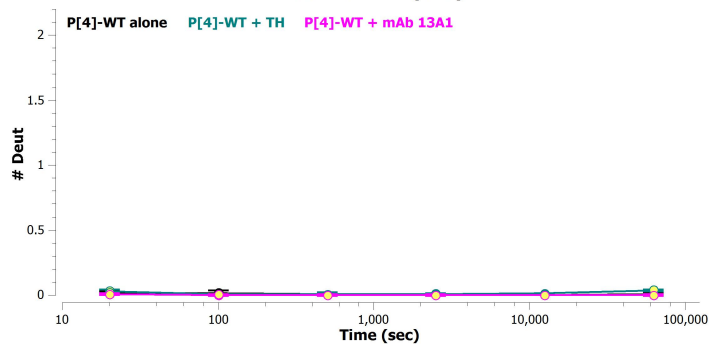
24-37: DGPYQPTTFKPPND (#18)

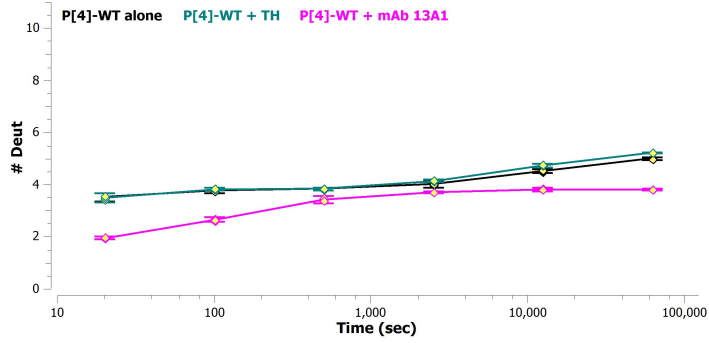
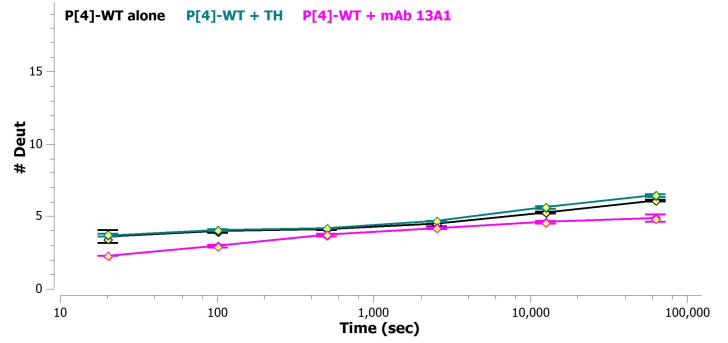
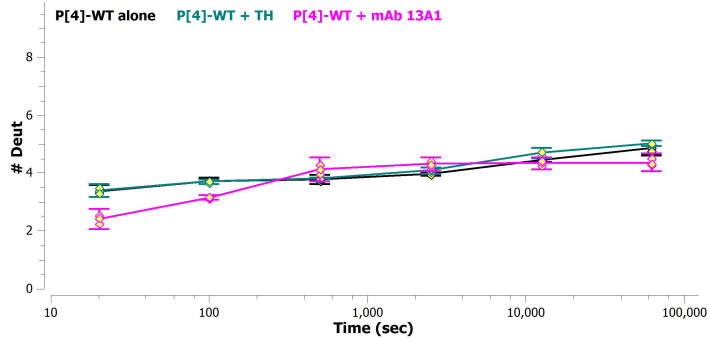
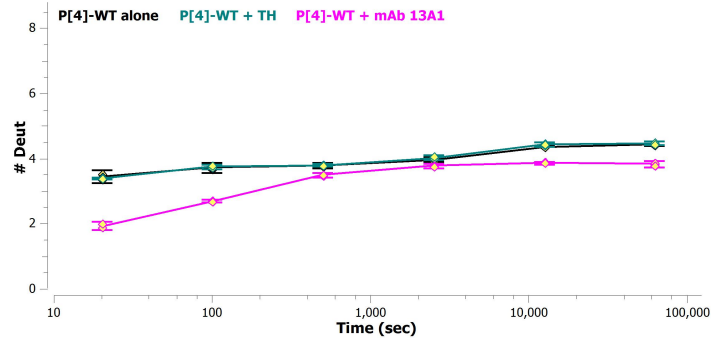
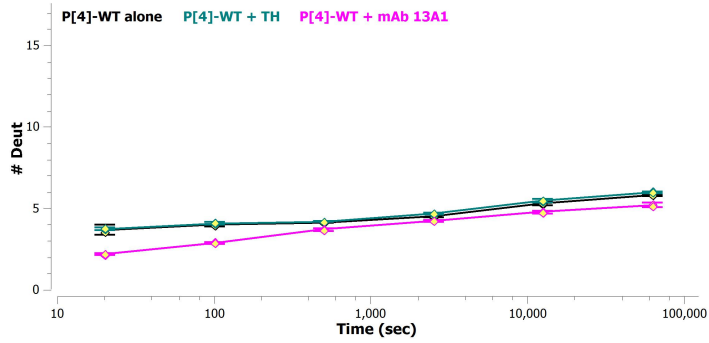
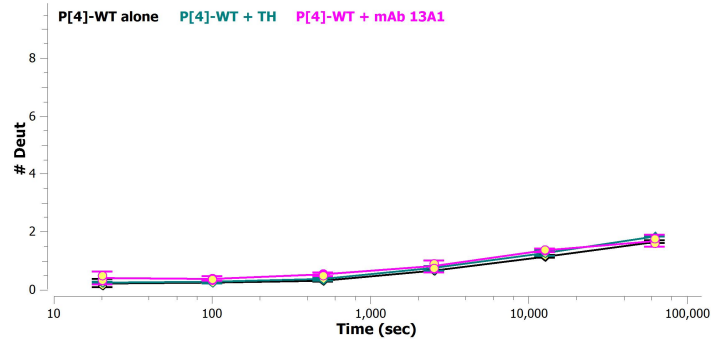
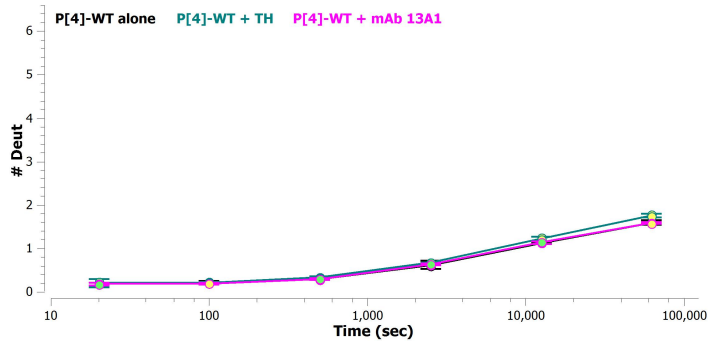
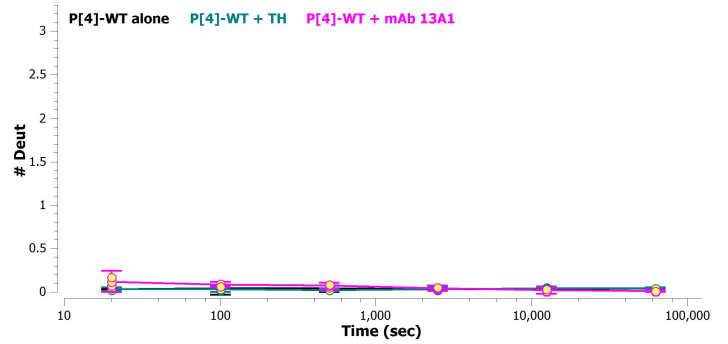
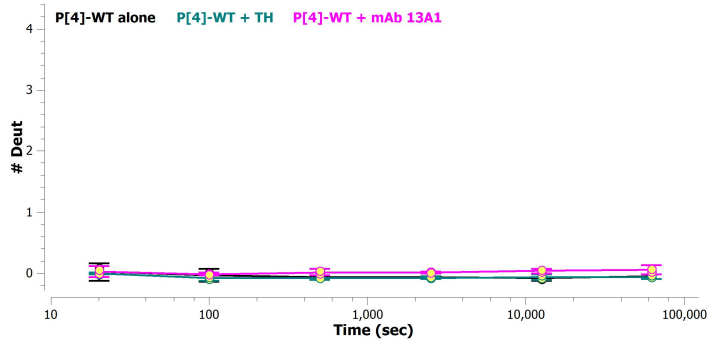
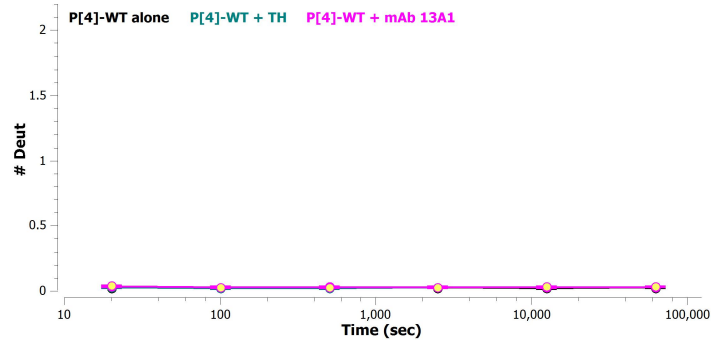


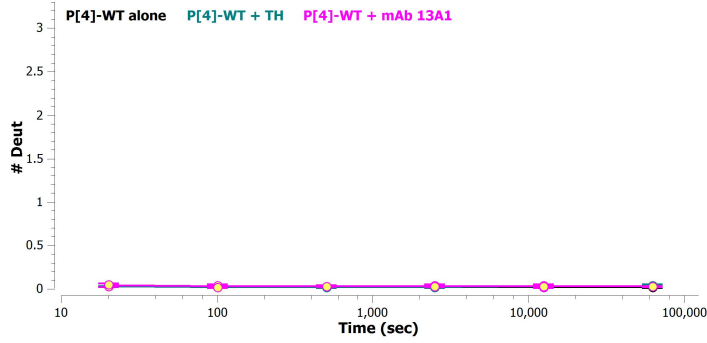
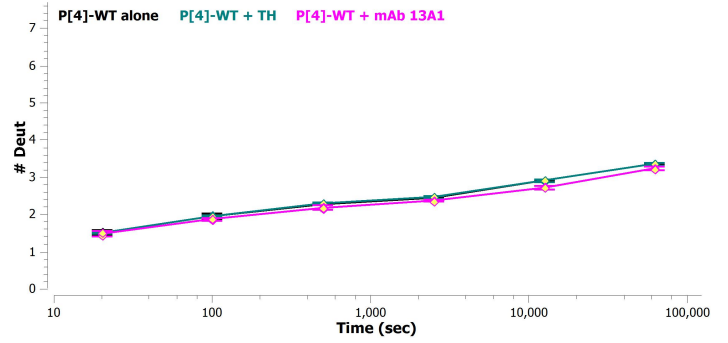
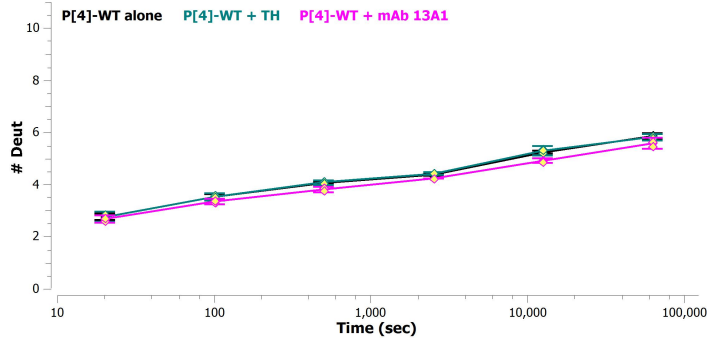
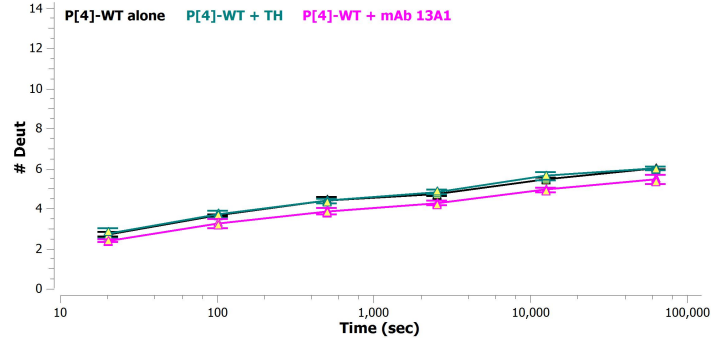
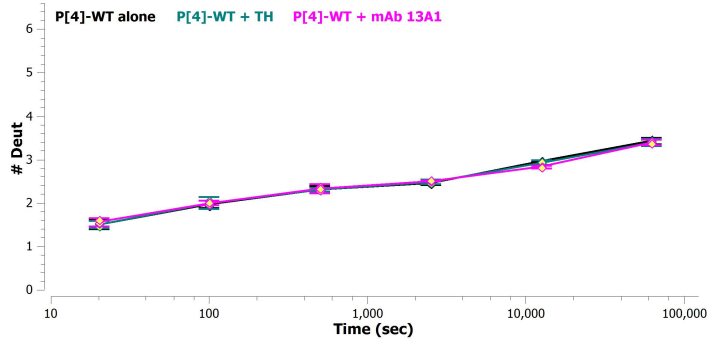
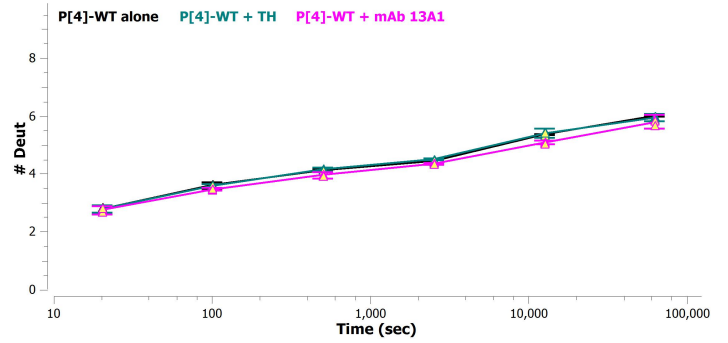
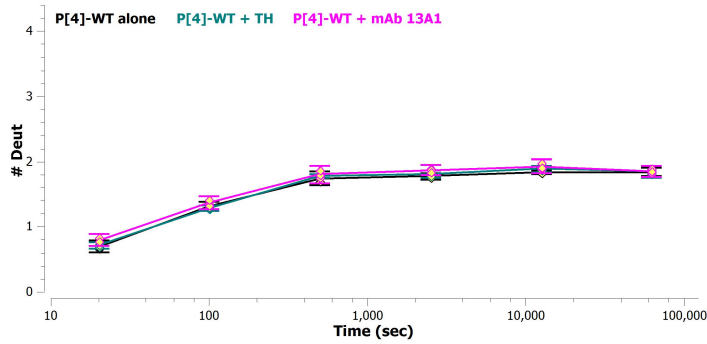
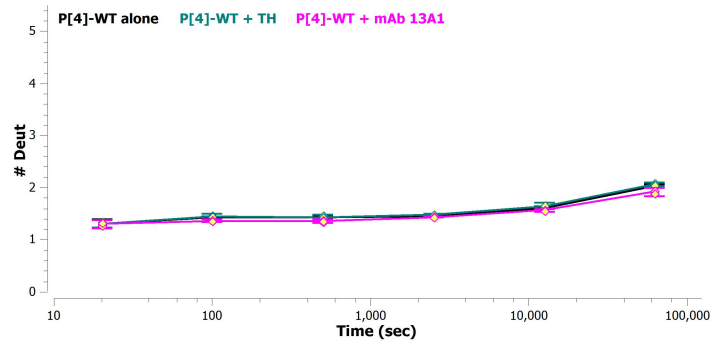
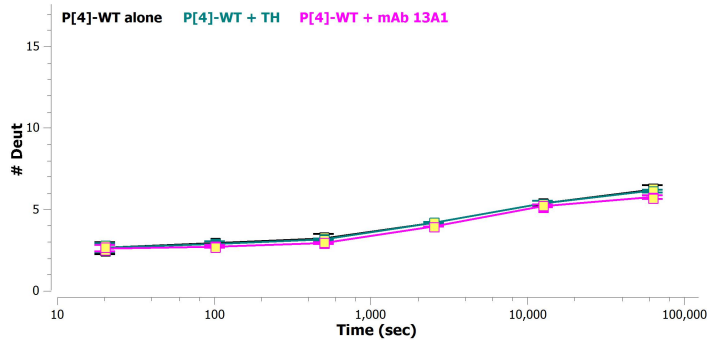
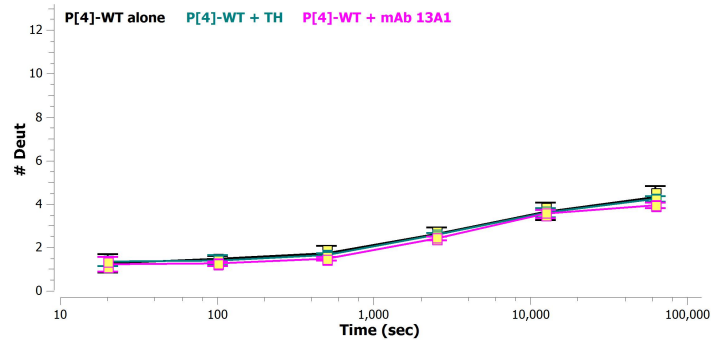
24-39: DGPYQPTTFKPPNDYW (#19)

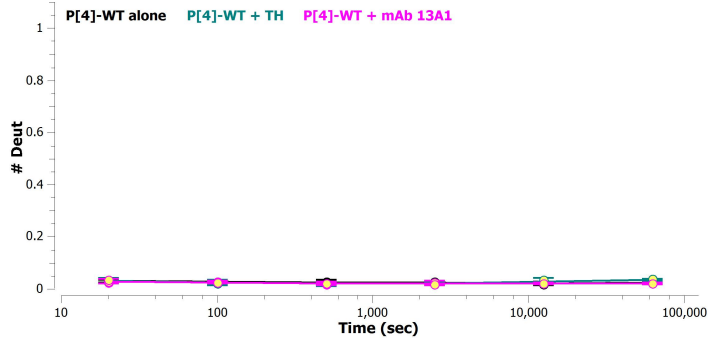
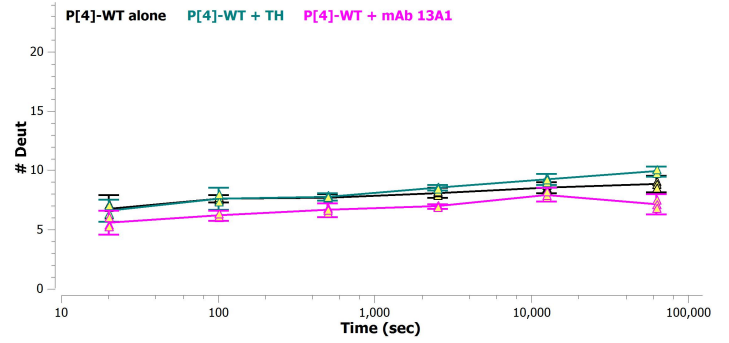
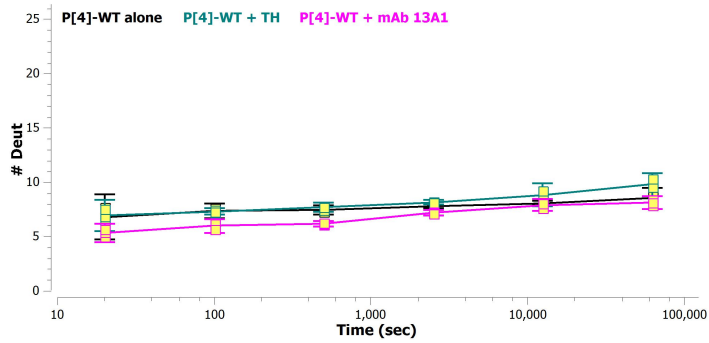
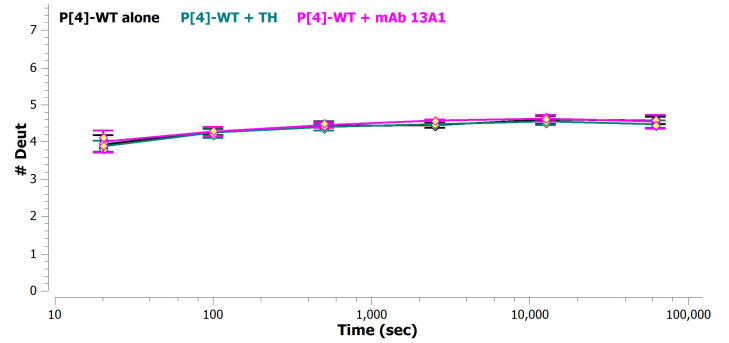
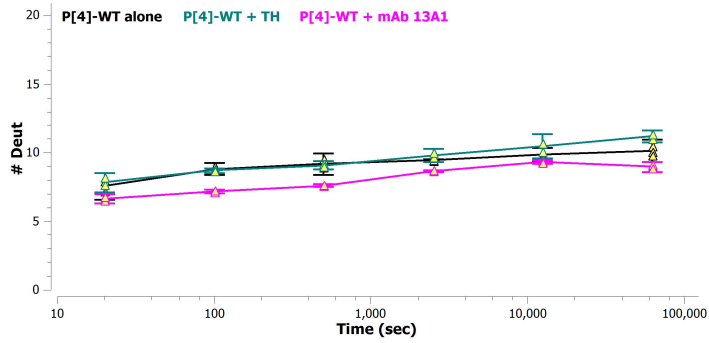
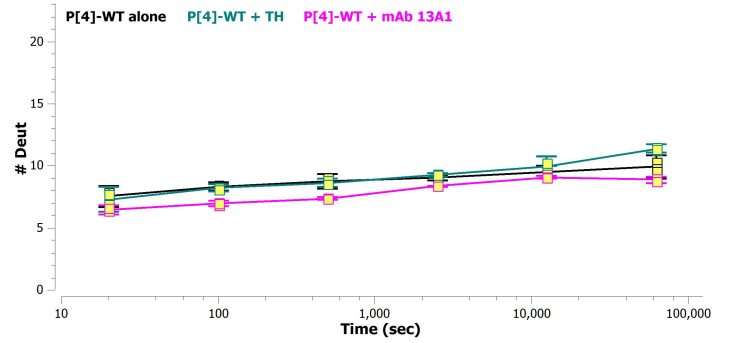
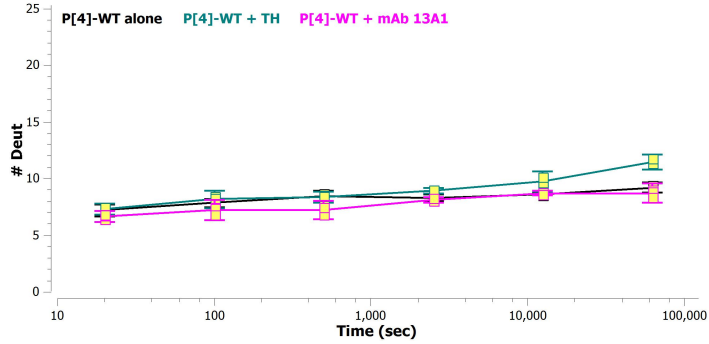
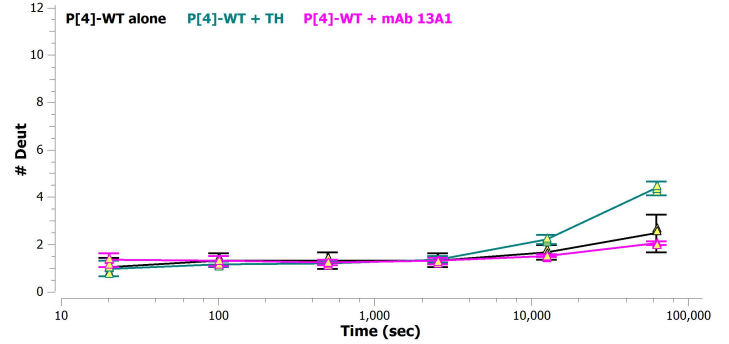
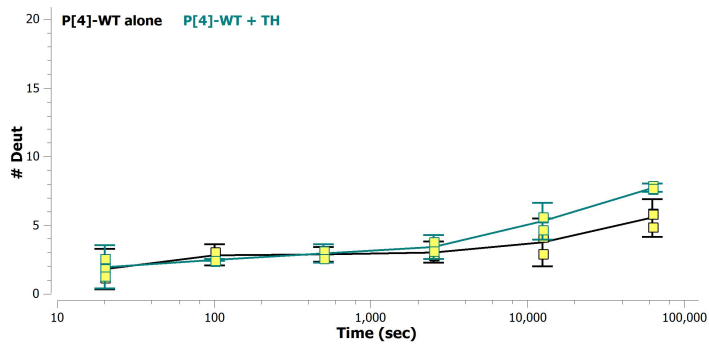
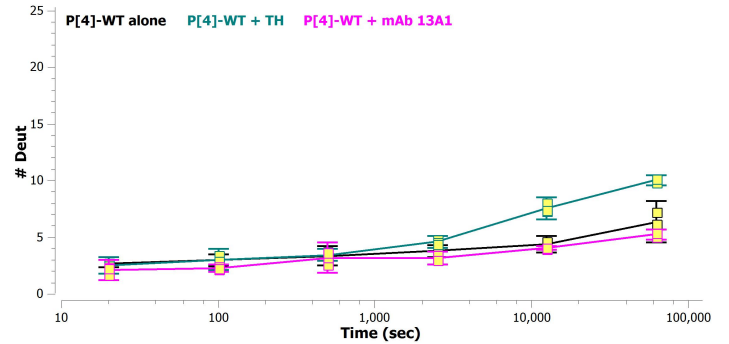


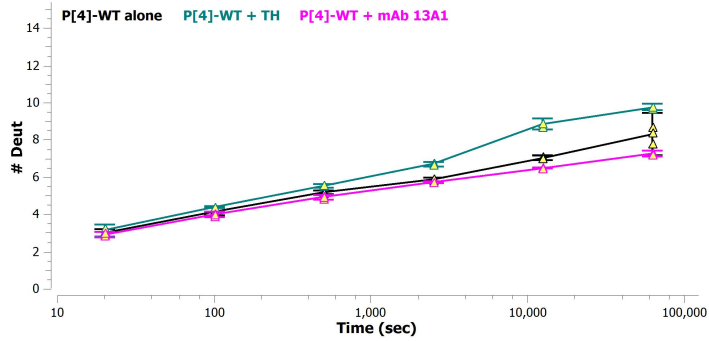
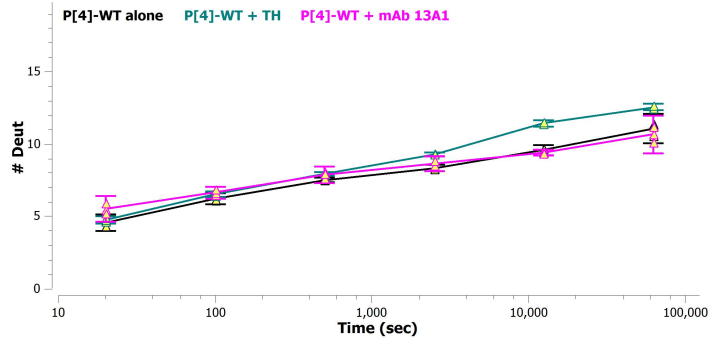
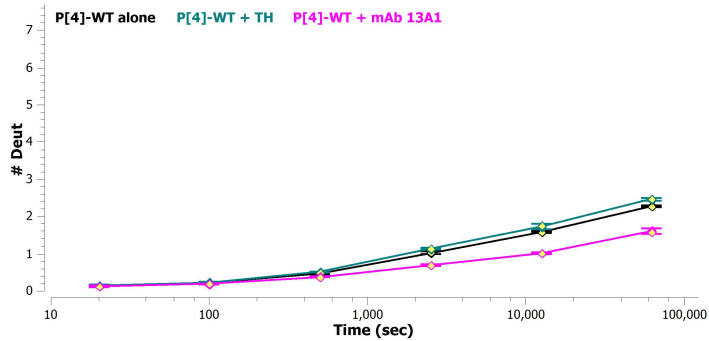
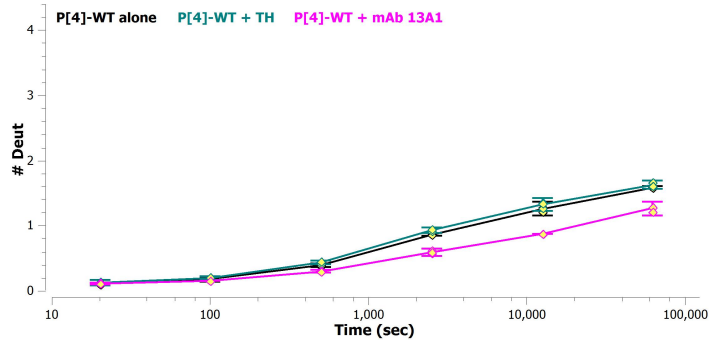
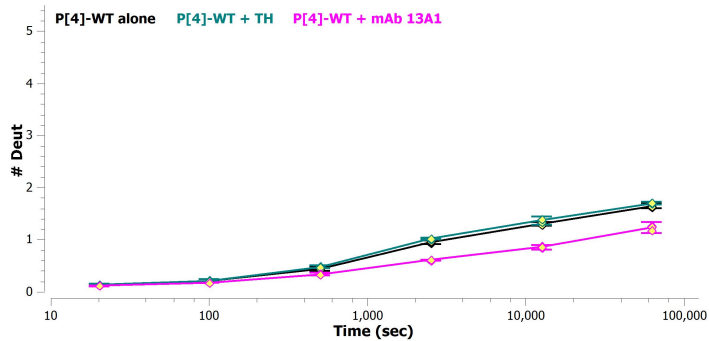
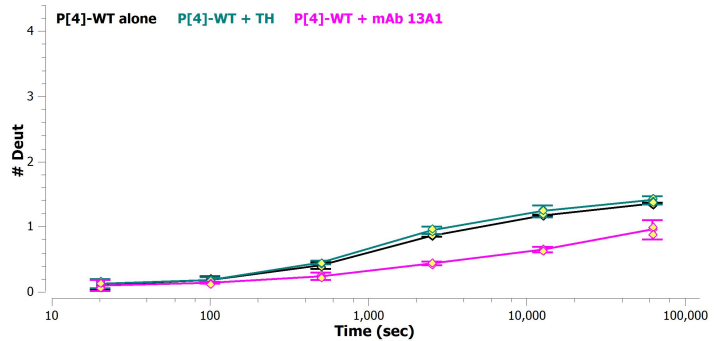
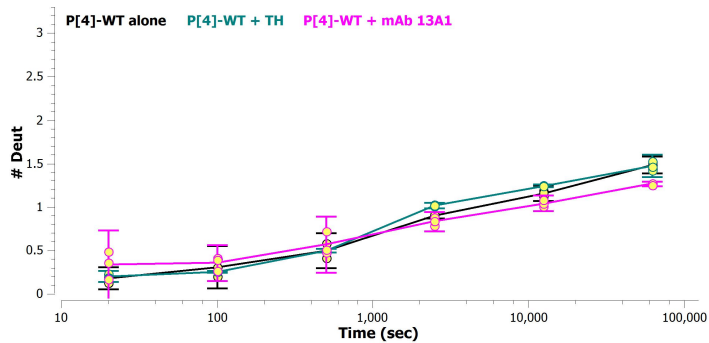
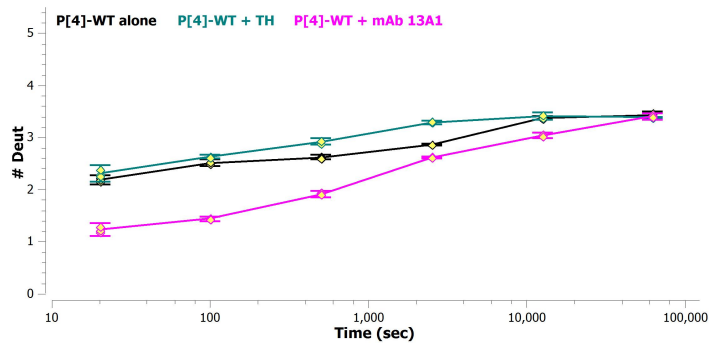
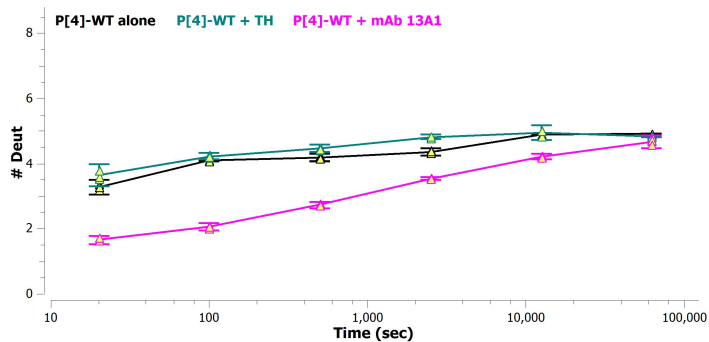
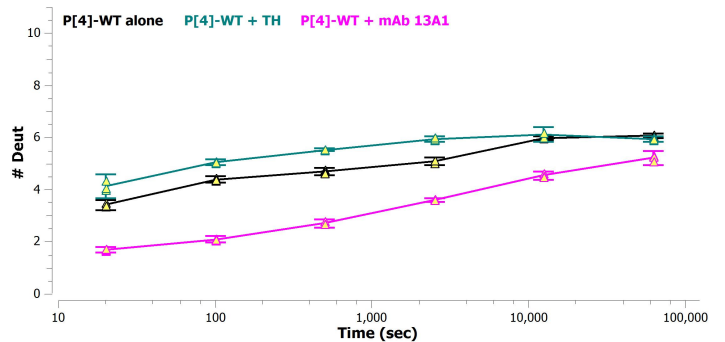
38-41: YWLL (#20)



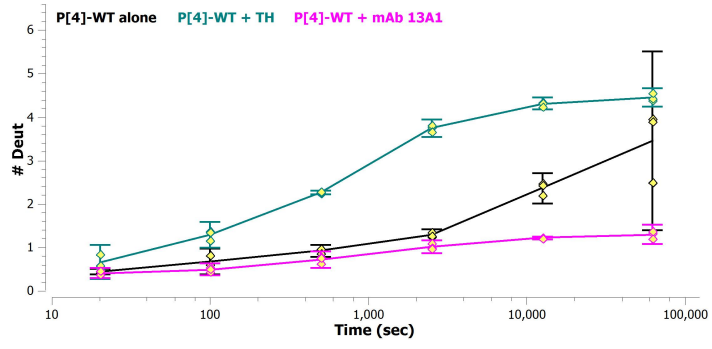
40-51: LLISSNTNGVVY (#21)**40-59: LLISSNTNGVVYESTNNDF (#22)****41-51: LISSNTNGVVY (#23)****42-51: ISSNTNGVVY (#24)****42-59: ISSNTNGVVYESTNNDF (#25)****49-59: VVYESTNNDF (#26)****52-59: ESTNNDF (#27)****59-63: FWTAV (#28)****59-64: FWTAVI (#29)****60-63: WTAV (#30)**

60-64: WTAVI (#31)**64-73: IAVEPHVSQT (#32)****64-76: IAVEPHVSQTNRQ (#33)****64-79: IAVEPHVSQTNRQYIL (#34)****65-73: AVEPHVSQT (#35)****65-76: AVEPHVSQTNRQ (#36)****74-79: NRQYIL (#37)****80-86: FGENKQF (#38)****80-97: FGENKQFNVENNSDKWKWF (#39)****84-97: KQFNVENNSDKWKWF (#40)**

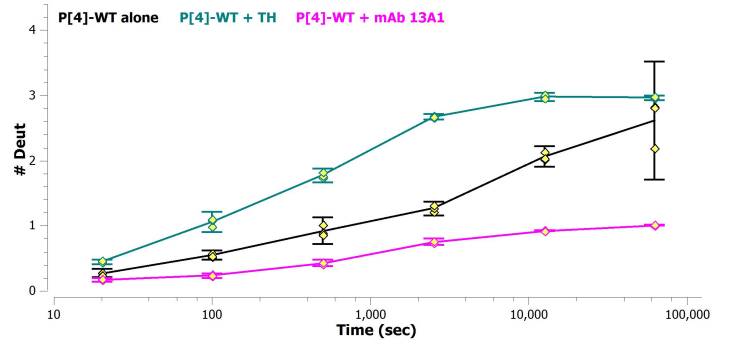
98-100: FEM (#41)**98-121: FEMFKGSSQGDFSNRRLTSSNRL (#42)****98-123: FEMFKGSSQGDFSNRRLTSSNRLVG (#43)****101-109: FKGSSQGDF (#44)****101-121: FKGSSQGDFSNRRLTSSNRL (#45)****101-123: FKGSSQGDFSNRRLTSSNRLVG (#46)****101-125: FKGSSQGDFSNRRLTSSNRLVGML (#47)****122-134: VGMLKYGGRVWTF (#48)****122-143: VGMLKYGGRVWTFHGETPRATT (#49)****122-147: VGMLKYGGRVWTFHGETPRATTDSSN (#50)**

135-151: HGETPRATTDSSNTADL (#61)**135-155: HGETPRATTDSSNTADLNNIS (#62)****154-162: ISIIHSEF (#63)****156-161: IIIHSE (#64)****156-162: IIIHSEF (#65)****157-162: IIHSEF (#66)****158-162: IHSEF (#67)****163-170: YIIPRSQE (#68)****163-173: YIIPRSQESKC (#69)****163-175: YIIPRSQESKCN (#70)**

174-181: NEYINGL (#71)



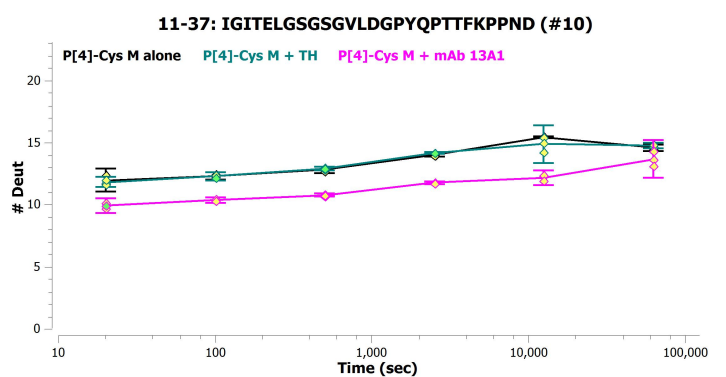
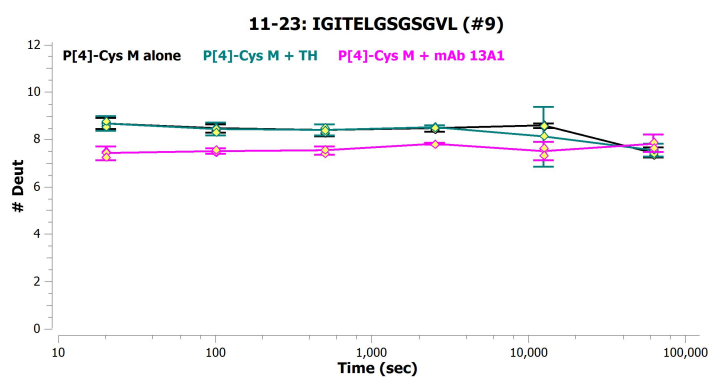
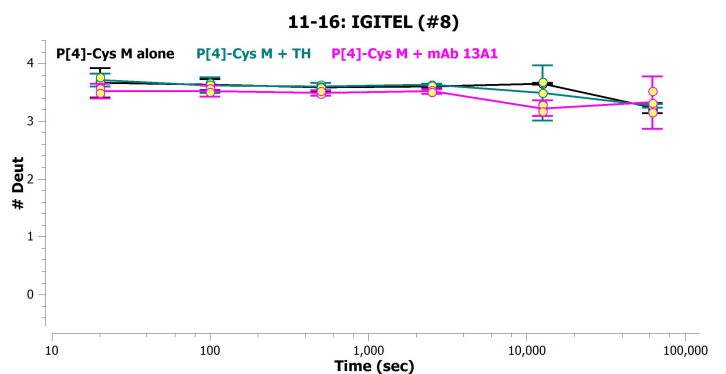
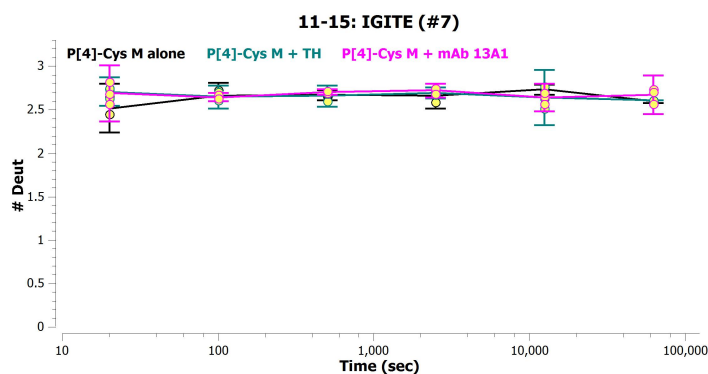
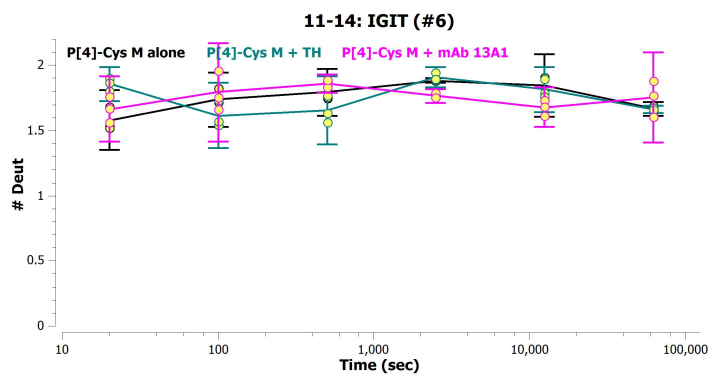
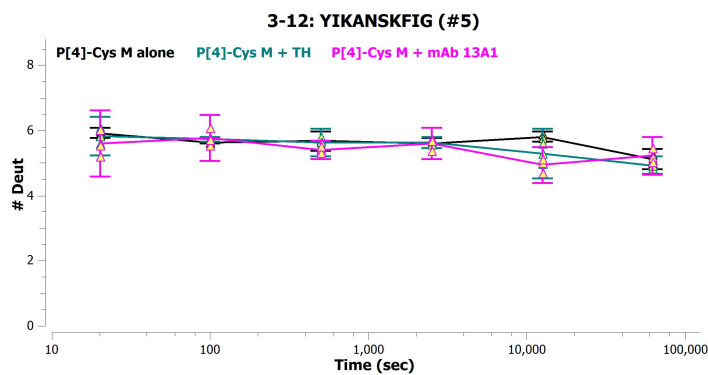
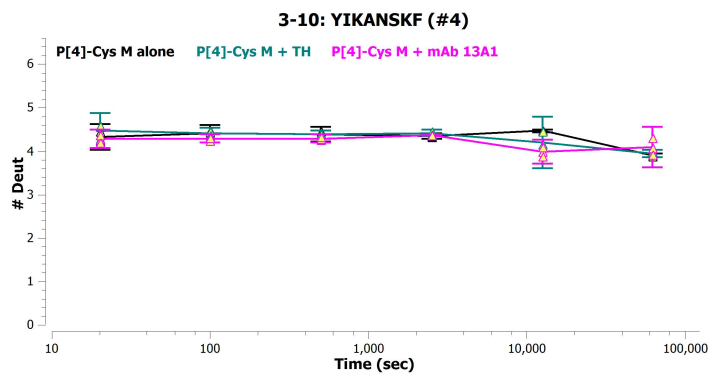
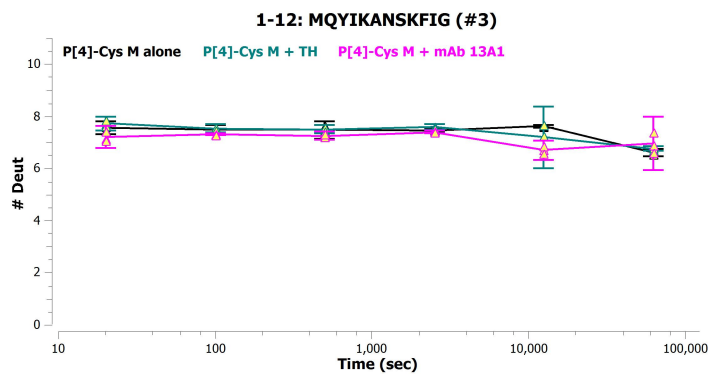
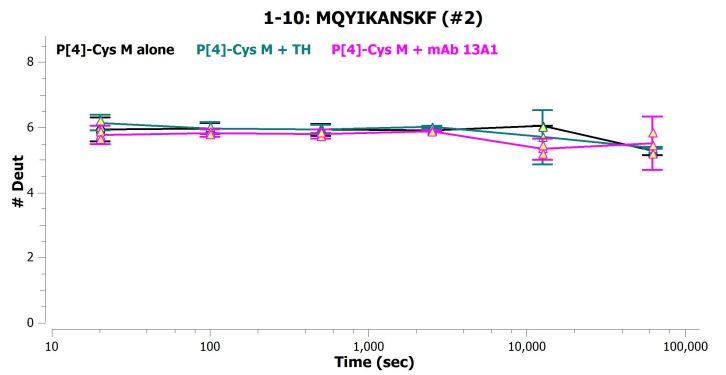
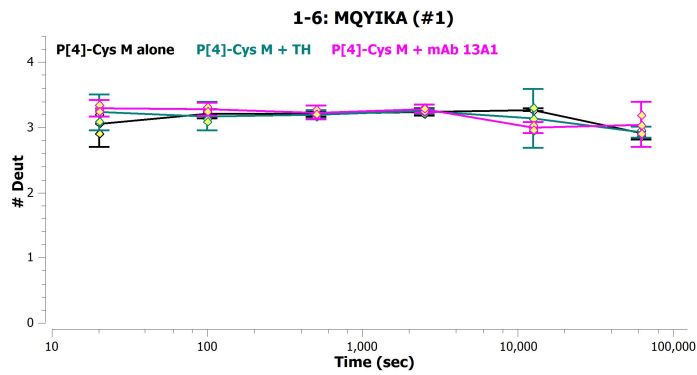
176-181: YINNGI (#72)

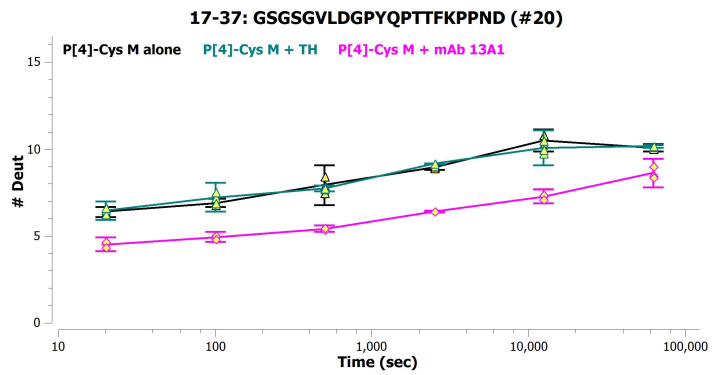
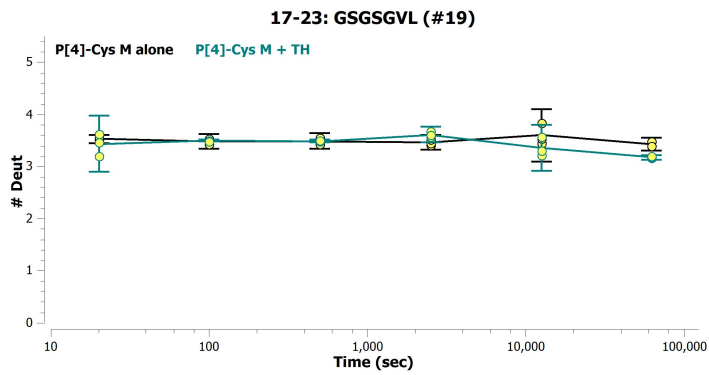
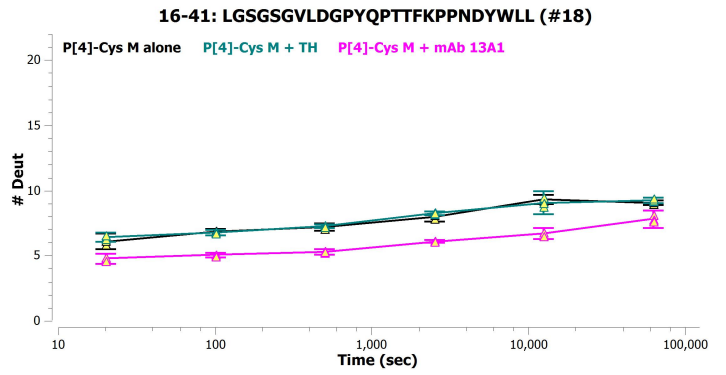
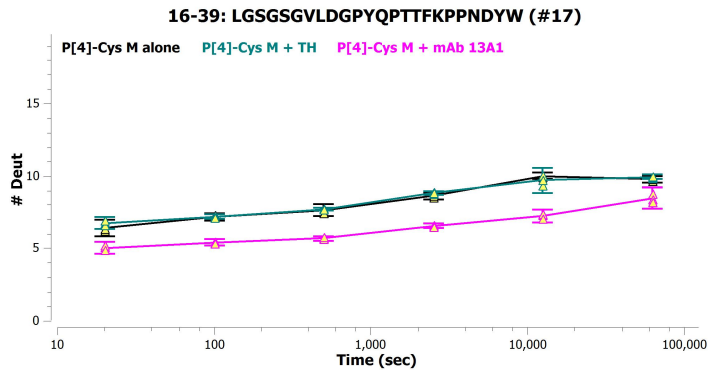
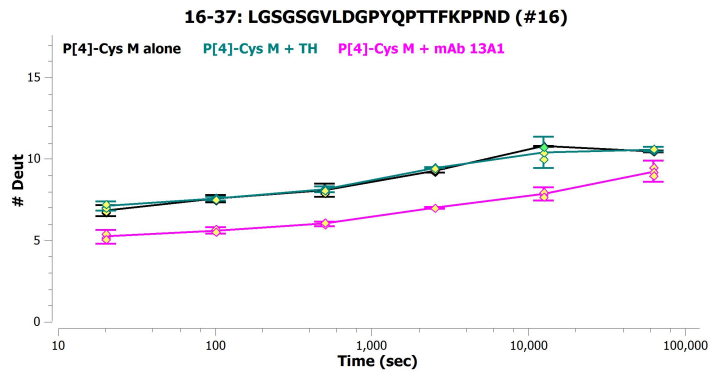
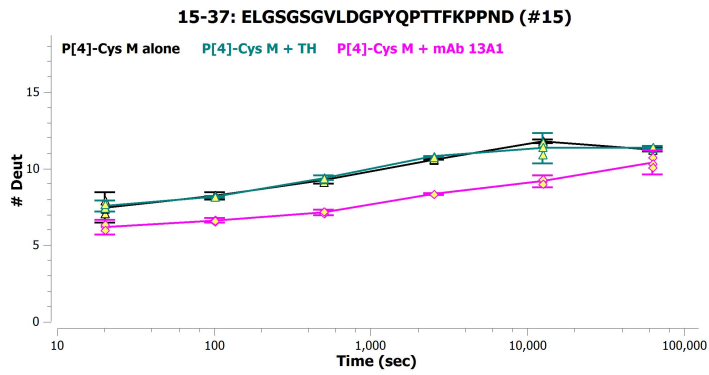
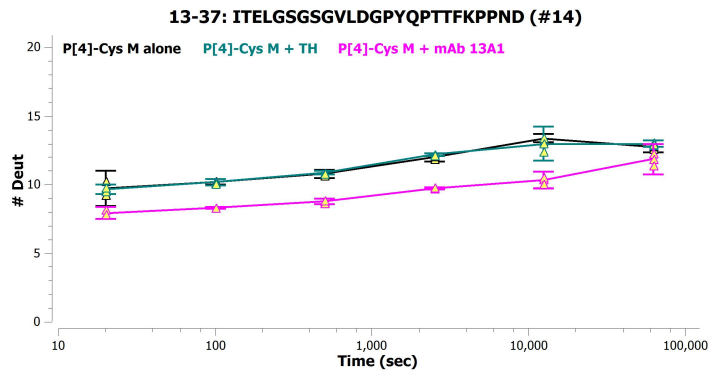
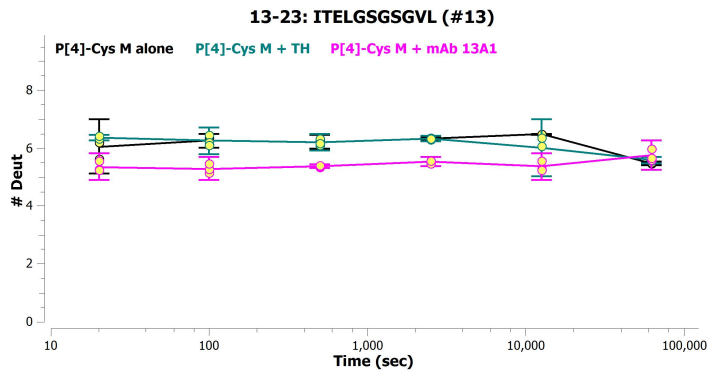
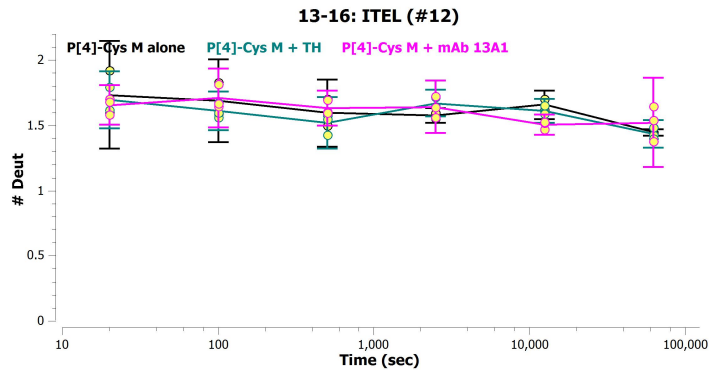
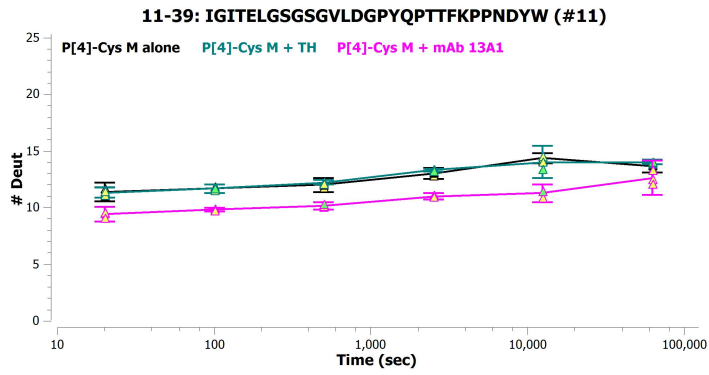


State	Start	End	Sequence	Search RT	Charge	Max D	20s	20s	20s	100s	100s	100s	500s	500s	500s	2500s	2500s	2500s	12500s	12500s	12500s	62500s	62500s	62500s	
							#D	#D	#D	#D	#D	#D	#D	#D	#D	#D	#D	#D	#D	#D	#D	#D	#D	#D	
Pp [4]-C1735 alone	1	6	MOQYKA	4.97	2	4	3.069	3.205	2.913	3.209	3.178	3.228	3.198	3.214	3.213	3.254	3.251	3.284	3.269	3.268	2.878	2.958	2.902		
Pp [4]-C1735 alone	1	10	MOQYKANSKF	5.86	3	8	5.957	6.077	5.778	5.997	5.893	6.029	5.852	5.933	6.002	5.912	5.918	5.94	6.048	6.055	6.056	5.227	5.329	5.285	
Pp [4]-C1735 alone	1	12	MOQYKANSKF	6.37	3	10	7.609	7.645	7.448	7.498	7.541	7.585	7.356	7.463	7.603	7.487	7.435	7.465	7.602	7.636	7.67	6.549	6.666	6.632	
Pp [4]-C1735 alone	3	6	VIKANSKF	4.36	3	6	4.285	4.463	4.244	4.433	4.321	4.481	4.325	4.414	4.454	4.328	4.382	4.352	4.484	4.466	4.459	3.884	3.915	3.893	
Pp [4]-C1735 alone	3	12	VIKANSKF	5.15	3	8	5.918	5.858	5.987	5.62	5.617	5.626	5.56	5.688	5.795	5.584	5.572	5.682	5.771	5.875	5.769	5.051	5.253	5.094	
Pp [4]-C1735 alone	11	14	IGIT	3.91	1	2	1.681	1.532	1.446	2.043	1.663	1.721	1.747	1.879	1.756	1.879	1.891	1.882	1.734	1.91	1.89	1.648	1.689	1.661	
Pp [4]-C1735 alone	11	15	IGITE	4.45	1	3	2.447	2.648	2.455	2.608	2.653	2.729	2.649	2.696	2.671	2.678	2.707	2.594	2.706	2.738	2.755	2.594	2.605	2.526	
Pp [4]-C1735 alone	11	16	IGITL	7.57	1	4	3.563	3.688	3.765	3.642	3.591	3.673	3.566	3.593	3.626	3.603	3.509	3.606	3.645	3.66	3.644	3.194	3.269	3.295	
Pp [4]-C1735 alone	11	23	IGITELGSSGVL	8.57	2	11	8.725	8.584	8.761	8.503	8.389	8.512	8.281	8.387	8.492	8.528	8.44	8.425	8.631	8.597	8.552	7.372	7.533	7.435	
Pp [4]-C1735 alone	11	37	IGITELGSSGVLDPGYOPTFFKPPND	8.82	2	21	11.722	11.811	12.413	12.25	12.235	12.448	12.732	12.815	12.934	14.098	14.051	13.988	15.491	15.422	15.449	14.519	14.734	14.589	
Pp [4]-C1735 alone	11	39	IGITELGSSGVLDPGYOPTFFKPPNDVW	10.49	3	23	11.048	11.363	11.693	11.555	11.623	11.85	11.759	12.021	12.219	12.813	13.124	13.166	14.182	14.403	14.523	13.409	13.829	13.719	
Pp [4]-C1735 alone	13	16	ITEL	4.9	1	2	1.6	1.685	1.924	1.645	1.591	1.833	1.586	1.704	1.498	1.558	1.567	1.601	1.617	1.656	1.705	1.452	1.453	1.435	
Pp [4]-C1735 alone	13	23	ITELGSSGVL	7.09	1	9	6.219	6.327	6.629	6.351	6.266	6.155	6.277	6.269	6.108	6.319	6.329	6.352	6.471	6.477	6.488	5.465	5.467	5.51	
Pp [4]-C1735 alone	13	37	ITELGSSGVLDPGYOPTFFKPPND	8.08	2	19	9.57	9.688	10.103	10.209	10.161	10.333	10.778	10.83	11.015	12.227	12.153	13.59	13.5	13.541	12.847	13.009	12.914		
Pp [4]-C1735 alone	15	37	ELGSSGVLDPGYOPTFFKPPND	7.8	2	17	7.367	7.633	7.419	8.341	8.206	8.309	9.278	9.365	9.534	10.905	10.741	10.78	11.952	11.907	11.868	11.369	11.46	11.4	
Pp [4]-C1735 alone	16	37	LGSSGVLDPGYOPTFFKPPND	7.59	2	16	6.76	7.021	6.814	7.584	7.489	7.666	9.185	8.137	8.227	9.227	9.307	9.325	10.8	10.772	10.799	10.47	10.51	10.483	
Pp [4]-C1735 alone	16	39	LGSSGVLDPGYOPTFFKPPNDVW	9.79	2	18	6.32	6.708	6.298	7.169	7.185	7.337	7.5	7.723	7.808	8.652	8.721	8.75	9.95	10.077	10.136	9.745	9.908	9.866	
Pp [4]-C1735 alone	16	41	LGSSGVLDPGYOPTFFKPPNDVW	11.27	3	20	5.839	6.324	6.143	6.801	6.767	6.962	7.087	7.26	7.326	7.802	8.136	8.117	9.171	9.384	9.544	8.991	9.141	9.123	
Pp [4]-C1735 alone	17	23	GSSGVL	4	1	5	3.51	3.525	3.571	3.508	3.423	3.531	3.548	3.425	3.496	3.414	3.442	3.525	3.831	3.44	3.544	3.544	3.397	3.402	
Pp [4]-C1735 alone	17	37	GSSGVLDPGYOPTFFKPPND	7.31	2	15	6.72	6.511	6.527	7.112	7.093	7.164	7.574	7.117	7.807	8.958	8.963	8.952	10.444	10.388	10.132	10.213	10.162		
Pp [4]-C1735 alone	17	39	GSSGVLDPGYOPTFFKPPNDVW	9.6	2	17	6.043	6.319	6.487	6.82	6.89	6.983	7.252	7.403	7.527	8.33	8.62	8.542	9.758	9.932	9.885	9.575	9.734	9.753	
Pp [4]-C1735 alone	24	37	DGPYOPTFFKPPND	9.11	2	8	2.406	2.563	2.451	2.725	2.745	2.789	3.209	3.263	3.289	4.358	4.452	4.438	5.638	5.717	5.706	5.941	5.988	5.957	
Pp [4]-C1735 alone	24	39	DGPYOPTFFKPPNDVW	6.26	2	10	2.376	2.588	2.85	2.778	2.725	2.778	3.275	3.273	3.289	4.413	4.294	4.461	5.481	5.478	5.572	5.839	5.803	5.872	
Pp [4]-C1735 alone	24	41	DGPYOPTFFKPPNDVWLL	10.95	2	12	2.528	2.547	2.711	2.568	2.62	2.635	3.006	3.026	2.982	3.876	4.083	4.079	5.94	5.071	5.234	5.283	5.285	5.241	
Pp [4]-C1735 alone	38	41	VWLL	11.07	1	2	0.04	0.029	0.067	0.03	0.027	0.028	0.027	0.03	0.028	0.025	0.025	0.027	0.027	0.028	0.025	0.029	0.029	0.024	
Pp [4]-C1735 alone	40	51	LISSNTNGVVY	7.63	2	10	3.308	3.515	3.467	3.706	3.703	3.75	3.719	3.828	3.809	3.981	4.037	4.061	4.479	4.553	4.569	4.736	4.871	4.661	
Pp [4]-C1735 alone	40	59	LISSNTNGVVYESTNNDF	8.08	2	18	3.459	3.796	3.737	4.038	4.078	4.119	4.106	4.183	4.201	4.472	4.545	4.558	5.333	5.412	5.422	5.735	5.823	5.845	
Pp [4]-C1735 alone	41	51	LISSNTNGVVY	6.14	2	9	3.412	3.437	3.5	3.658	3.644	3.713	3.773	3.762	3.772	3.962	3.87	3.903	4.466	4.455	4.438	4.555	4.522	4.479	
Pp [4]-C1735 alone	42	51	LISSNTNGVVY	5.31	2	8	3.294	3.447	3.179	3.673	3.68	3.754	3.72	3.771	3.8	3.877	3.918	3.907	4.271	4.334	4.335	4.05	4.039	4.025	
Pp [4]-C1735 alone	42	59	LISSNTNGVVYESTNNDF	6.79	2	16	3.471	3.778	3.623	3.979	4.009	4.058	4.048	4.158	4.179	4.45	4.526	4.527	5.21	5.263	5.288	5.307	5.385	5.381	
Pp [4]-C1735 alone	59	63	FWTAV	8.09	1	3	0.095	0.05	0.097	0.023	0.023	0.023	0.025	0.023	0.024	0.021	0.022	0.04	0.027	0.015	0.027	0.015	0.021	0.032	0.028
Pp [4]-C1735 alone	59	64	FWTAVI	9.72	1	4	0.052	-0.007	-0.197	-0.034	-0.043	-0.066	-0.025	-0.053	-0.055	-0.038	-0.083	-0.041	-0.019	-0.081	-0.069	-0.046	-0.063	-0.049	
Pp [4]-C1735 alone	60	63	WTAV	5.56	1	2	0.038	0.031	0.067	0.031	0.03	0.027	0.025	0.021	0.023	0.023	0.026	0.024	0.027	0.029	0.03	0.025	0.023	0.026	
Pp [4]-C1735 alone	60	64	WTAVI	7.8	1	3	0.049	0.042	0.062	0.036	0.035	0.032	0.022	0.025	0.023	0.029	0.025	0.033	0.039	0.029	0.028	0.023	0.034	0.029	
Pp [4]-C1735 alone	64	73	IAPVPHVST	4.1	2	7	1.471	1.527	1.378	1.93	1.941	1.986	2.22	2.267	2.292	2.405	2.458	2.451	2.884	2.905	2.921	3.156	3.179	3.163	
Pp [4]-C1735 alone	64	76	IAPVPHVSTNRQ	3.68	3	10	2.716	2.824	2.667	3.535	3.493	3.612	3.948	4.046	4.131	4.335	4.372	4.385	5.29	5.341	5.361	5.49	5.436	5.465	
Pp [4]-C1735 alone	64	79	IAPVPHVSTNRQYL	7.03	3	13	2.711	2.82	2.947	3.723	3.635	3.734	4.225	4.349	4.458	4.597	4.676	4.664	5.535	5.51	5.547	5.619	5.605	5.69	
Pp [4]-C1735 alone	65	73	AVEPHVST	3.17	2	6	1.448	1.534	1.411	1.89	1.98	1.98	2.264	2.287	2.298	2.421	2.453	2.4	2.888	2.913	2.903	3.183	3.189	3.167	
Pp [4]-C1735 alone	65	76	AVEPHVSTNRQ	2.92	3	9	2.747	2.848	2.666	3.564	3.55	3.654	4.029	4.117	4.196	4.406	4.459	4.45	5.377	5.471	5.431	5.639	5.585	5.584	
Pp [4]-C1735 alone	65	79	AVEPHVSTNRQYL	6.6	3	12	2.952	2.92	2.815	3.958	3.727	3.773	4.301	4.466	4.526	4.677	4.678	4.723	5.626	5.615	5.637	5.689	5.693	5.746	
Pp [4]-C1735 alone	66	76	VEPHVSTNRQ	3.68	2	8	2.537	2.567	2.486	3.267	3.26	3.412	3.655	3.679	3.819	4.102	4.047	4.094	4.887	5.002	5.037	5.055	4.968	5.145	
Pp [4]-C1735 alone	74	79	NRQYL	6.44	2	4	0.781	0.707	1.032	1.311	1.335	1.393	1.703	1.779	1.876	1.817	1.809	1.866	1.915	1.883	1.908	1.859	1.823	1.835	
Pp [4]-C1735 alone	80	86	FGENKQF	5.08	2	5	1.265	1.336	1.329	1.414	1.393	1.437	1.375	1.405	1.44	1.421	1.424	1.427	1.595	1.601	1.602	1.88	1.875	1.869	
Pp [4]-C1735 alone	80	97	FGENKQFVNNNSDKWKF	8.17	4	16	2.714	2.864	2.519	3.092	2.916	2.946	3.208	3.193	3.26	4.15	4.126	4.085	5.473	5.408	5.351	5.887	5.847	5.823	
Pp [4]-C1735 alone	81	97	FGENKQFVNNNSDKWKF	7.59	4	15	2.593	2.73	2.602	2.962	2.802	2.828	3.076	3.093	3.185	4.13	4.145	4.057	5.462	5.396	5.342	5.79	5.776	5.777	
Pp [4]-C1735 alone	84	97	KQFVNNNSDKWKF	7.45	4	12	1.294	1.368	0.862	1.595	1.424	1.408	1.708	1.665	1.695	2.585	2.542	2.364	3.768	3.622	3.528	4.474	4.069	3.949	
Pp [4]-C1735 alone	87	97	VNNSDKWKF	7.21	3	9	0.982	1.057	0.877	1.177	1.102	1.121	1.398	1.43	1.498	2.293	2.321	2.306	3.372	3.386	3.361	3.403	3.384	3.34	
Pp [4]-C1735 alone	98	100	FEM	6.21	1	1	0.03	0.023	0.047	0.027	0.024	0.023	0.02	0.02	0.023	0.024	0.02	0.02	0.023	0.026	0.028	0.028	0.03	0.027	
Pp [4]-C1735 alone	98	101	FEMF	9.22	1	2	0.017	0.013	0.117	0.017	0.018	0.004	0.002	0.004	0.019	0.043	-0.023	-0.006	-0.008	0.013	0.015	0.027			

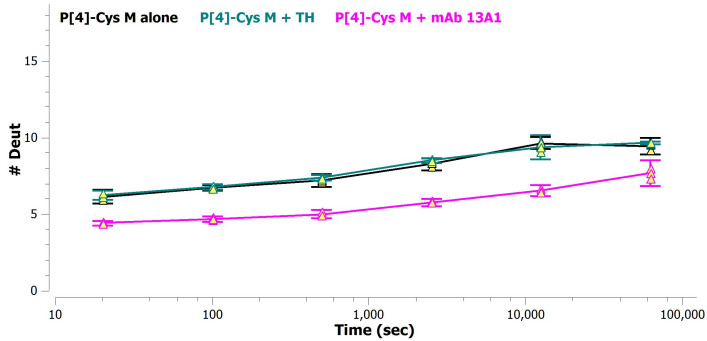
Pd P[4]-C1735 with Thimerosal	24	41	DGPYQPTFFKPPNDYWLL	10.95	2	12	2.644	2.281	2.574	2.656	2.64	2.537	3.043	3.181	3.158	4.072	4.027	4.064	5.004	4.821	4.852	5.409	5.27	5.328
Pd P[4]-C1735 with Thimerosal	38	41	YWLL	11.07	1	2	0.035	0.047	0.026	0.027	0.024	0.029	0.025	0.025	0.023	0.029	0.027	0.023	0.02	0.025	0.028	0.028	0.031	0.027
Pd P[4]-C1735 with Thimerosal	40	51	LUSSTNGVYV	7.63	2	10	3.571	3.503	3.658	3.726	3.793	3.701	3.884	3.851	3.833	4.002	4.066	4.076	4.532	4.22	4.442	4.928	4.909	4.717
Pd P[4]-C1735 with Thimerosal	40	59	LUSSTNGVYVYESTNNDF	8.16	2	18	3.869	3.839	3.953	4.116	4.113	4.076	4.218	4.284	4.213	4.661	4.633	4.642	5.435	5.068	5.209	5.882	5.901	5.974
Pd P[4]-C1735 with Thimerosal	41	51	LISSTNGVYV	6.14	2	9	3.482	3.383	3.55	3.651	3.709	3.675	3.749	3.704	3.712	3.942	3.919	3.962	4.448	4.088	4.248	4.688	4.549	4.601
Pd P[4]-C1735 with Thimerosal	42	51	ISSTNGVYV	5.31	2	8	3.503	3.405	3.59	3.716	3.749	3.65	3.804	3.778	3.753	3.961	3.956	3.959	4.29	3.959	4.155	4.044	4.068	4.088
Pd P[4]-C1735 with Thimerosal	42	59	ISSTNGVYVYESTNNDF	6.79	2	16	3.803	3.772	3.899	4.062	4.065	4.003	4.186	4.162	4.141	4.597	4.59	4.589	5.284	4.924	5.078	5.449	5.435	5.498
Pd P[4]-C1735 with Thimerosal	59	63	FWTAV	8.09	1	3	0.047	0.029	0.029	0.038	0.022	0.025	0.021	0.022	0.016	0.022	0.013	0.032	0.019	0.013	0.024	0.017	0.033	0.024
Pd P[4]-C1735 with Thimerosal	59	64	FWTAVI	9.72	1	4	-0.024	0.039	-0.015	-0.045	-0.049	-0.059	-0.07	-0.059	-0.044	-0.06	-0.084	-0.067	-0.063	-0.05	-0.039	-0.047	-0.056	-0.074
Pd P[4]-C1735 with Thimerosal	60	63	WTAV	5.56	1	2	0.027	0.04	0.033	0.034	0.023	0.03	0.029	0.024	0.022	0.033	0.025	0.025	0.029	0.022	0.021	0.022	0.022	0.027
Pd P[4]-C1735 with Thimerosal	60	64	WTAVI	7.8	1	3	0.037	0.052	0.035	0.037	0.028	0.03	0.025	0.026	0.03	0.039	0.029	0.031	0.028	0.025	0.029	0.03	0.029	0.033
Pd P[4]-C1735 with Thimerosal	64	73	IAVEPHVSQT	4.1	2	7	1.54	1.5	1.583	1.933	1.96	1.931	2.284	2.266	2.271	2.478	2.491	2.464	2.914	2.76	2.805	3.203	3.184	3.231
Pd P[4]-C1735 with Thimerosal	64	76	IAVEPHVSQTRNQ	3.68	3	10	2.903	2.813	2.999	3.543	3.543	3.533	4.1	4.061	4.021	4.497	4.516	4.498	5.344	5.037	5.118	5.497	5.486	5.593
Pd P[4]-C1735 with Thimerosal	64	79	IAVEPHVSQTRNQYL	7.03	3	13	2.863	2.957	2.971	3.805	3.707	3.78	4.512	4.449	4.422	4.824	4.809	4.811	5.575	5.302	5.408	5.673	5.716	5.792
Pd P[4]-C1735 with Thimerosal	65	73	AVEPHVSQT	3.17	2	6	1.539	1.452	1.616	1.948	1.962	1.964	2.292	2.257	2.299	2.497	2.48	2.462	2.953	2.811	2.831	3.207	3.207	3.209
Pd P[4]-C1735 with Thimerosal	65	76	AVEPHVSQTRNQ	2.92	3	9	2.937	2.782	2.993	3.566	3.6	3.547	4.143	4.106	4.088	4.56	4.591	4.56	5.426	5.121	5.188	5.638	5.598	5.702
Pd P[4]-C1735 with Thimerosal	65	79	AVEPHVSQTRNQYL	6.6	3	12	2.963	3.075	3.07	3.984	3.765	3.868	4.559	4.583	4.515	4.923	4.875	4.899	5.683	5.35	5.488	5.764	5.754	5.861
Pd P[4]-C1735 with Thimerosal	66	76	VEPHVSQTRNQ	3.68	2	8	2.608	2.513	2.795	3.365	3.345	3.272	3.925	3.839	3.835	4.206	4.179	4.114	4.997	4.795	4.72	5.115	5.149	5.289
Pd P[4]-C1735 with Thimerosal	74	79	NRQYL	6.44	2	4	0.868	0.785	0.793	1.296	1.337	1.351	1.758	1.789	1.788	1.882	1.883	1.85	1.914	1.848	1.86	1.978	1.944	1.878
Pd P[4]-C1735 with Thimerosal	80	86	FGENKQF	5.18	2	5	1.348	1.298	1.404	1.403	1.414	1.378	1.426	1.398	1.388	1.471	1.464	1.455	1.602	1.475	1.51	1.886	1.891	1.917
Pd P[4]-C1735 with Thimerosal	80	97	FGENKQFNVENNSDKWKF	8.07	4	16	2.959	2.817	3.006	2.959	2.958	2.972	3.296	3.25	3.238	3.448	3.218	3.449	5.34	5.052	5.139	5.756	5.875	5.902
Pd P[4]-C1735 with Thimerosal	81	97	GENKQFNVENNSDKWKF	7.59	4	15	2.816	2.747	2.889	2.869	2.885	2.882	3.2	3.151	3.114	3.138	3.221	3.162	3.327	5.103	5.165	5.715	5.775	5.81
Pd P[4]-C1735 with Thimerosal	84	97	KQFNVENNSDKWKF	7.45	4	12	1.554	1.271	1.574	1.443	1.423	1.425	1.705	1.642	1.656	2.419	2.594	2.485	3.421	3.387	3.31	3.859	3.894	3.943
Pd P[4]-C1735 with Thimerosal	87	97	NVENNSDKWKF	7.21	3	9	1.054	1.021	1.067	1.154	1.102	1.137	1.498	1.449	1.426	2.353	2.369	2.37	3.351	3.208	3.221	3.37	3.412	3.458
Pd P[4]-C1735 with Thimerosal	98	100	FEM	6.21	1	1	0.026	0.031	0.026	0.03	0.024	0.03	0.025	0.024	0.025	0.026	0.026	0.024	0.024	0.023	0.024	0.029	0.029	0.029
Pd P[4]-C1735 with Thimerosal	98	101	FEMF	9.22	1	2	-0.001	0.033	0.038	0.008	0.01	0.007	0.002	-0.006	0.006	-0.003	0.02	-0.002	-0.008	-0.005	0.029	0.008	0.012	0.014
Pd P[4]-C1735 with Thimerosal	98	121	FEMFKGSGQDFSNRRLTSSNRL	7.14	3	22	7.579	7.155	7.849	8.319	7.919	8.154	8.39	8.175	8.437	8.381	8.324	8.386	8.906	7.883	8.632	8.243	8.347	8.644
Pd P[4]-C1735 with Thimerosal	98	123	FEMFKGSGQDFSNRRLTSSNRLVG	7.21	4	24	8.117	7.024	7.516	8.443	8.433	8.191	8.716	8.682	8.504	8.582	8.22	8.65	9.425	8.489	8.607	8.737	9.223	8.656
Pd P[4]-C1735 with Thimerosal	101	109	FKGSGQDF	4.87	2	7	4.072	3.827	4.215	4.16	4.192	4.105	4.378	4.356	4.27	4.429	4.467	4.441	4.456	4.011	4.23	3.975	3.99	4.046
Pd P[4]-C1735 with Thimerosal	101	121	FKGSGQDFSNRRLTSSNRL	5.24	3	19	8.661	8.156	8.812	8.939	9.007	8.869	9.483	9.451	9.47	9.548	9.816	9.691	10.016	8.924	9.359	9.117	9.298	9.463
Pd P[4]-C1735 with Thimerosal	101	123	FKGSGQDFSNRRLTSSNRLVG	5.42	4	21	8.326	7.391	8.54	8.543	8.691	8.522	8.977	9.141	9.139	9.157	9.569	9.231	9.592	7.848	9.273	9.053	9.384	9.487
Pd P[4]-C1735 with Thimerosal	101	125	FKGSGQDFSNRRLTSSNRLVGM	7.72	4	23	7.84	7.863	7.896	8.477	8.536	8.533	8.843	8.996	8.952	8.907	8.859	9.213	8.586	8.951	9.264	8.696	8.257	8.539
Pd P[4]-C1735 with Thimerosal	102	121	KGSGQDFSNRRLTSSNRL	4.89	4	18	7.918	7.803	8.071	8.082	8.214	8.147	8.613	8.641	8.614	8.914	8.821	8.806	9.205	8.167	8.408	8.501	8.696	8.813
Pd P[4]-C1735 with Thimerosal	122	124	VGM	2.91	1	1	0.013	0.106	0.021	0.009	0.011	-0.004	-0.033	-0.039	0.02	0.033	0.052	0.007	0.103	0.035	0.114	0.215	0.236	0.286
Pd P[4]-C1735 with Thimerosal	122	125	VGM	5.69	1	2	0.014	0.023	0.012	0.017	0.015	0.01	0.01	0.008	0.012	0.027	0.031	0.024	0.105	0.102	0.085	0.37	0.379	0.401
Pd P[4]-C1735 with Thimerosal	122	134	VGMLKYGGRRVWTF	9.5	3	11	1.453	0.859	1.215	1.021	1.18	1.077	1.208	1.162	1.169	1.224	1.267	1.278	1.608	1.458	1.428	2.474	2.478	2.558
Pd P[4]-C1735 with Thimerosal	122	147	VGMLKYGGRRVWFHGETPRATDSSN	7.33	4	23	3.491	2.69	3.899	3.322	3.194	4.096	3.333	3.531	3.415	4.278	3.659	3.949	4.945	4.608	4.664	7.176	7.934	7.92
Pd P[4]-C1735 with Thimerosal	122	153	VGMLKYGGRRVWFHGETPRATDSSNADLNN	7.45	4	29	5.555	5.862	6.52	6.953	7.264	7.237	8.143	8.191	7.998	8.631	8.723	8.715	10.125	9.173	10.173	13.993	12.445	12.465
Pd P[4]-C1735 with Thimerosal	122	155	VGMLKYGGRRVWFHGETPRATDSSNADLNNIS	7.75	4	31	6.656	6.566	6.799	7.792	7.938	7.777	8.96	8.893	8.833	9.613	9.628	11.158	10.502	10.762	13.084	13.188	13.167	13.245
Pd P[4]-C1735 with Thimerosal	124	134	MLKYGGRRVWTF	9.17	3	9	1.506	0.827	1.274	1.093	1.166	1.134	1.202	1.141	1.168	1.19	1.214	1.227	1.541	1.413	1.424	2.266	2.281	2.265
Pd P[4]-C1735 with Thimerosal	124	151	MLKYGGRRVWFHGETPRATDSSNADL	7.45	4	25	4.624	3.618	4.465	4.602	5.017	4.756	5.686	5.719	5.734	6.174	6.423	6.729	7.543	7.123	7.112	9.11	9.357	9.298
Pd P[4]-C1735 with Thimerosal	124	155	MLKYGGRRVWFHGETPRATDSSNADLNNIS	7.41	4	29	6.445	6.709	6.829	7.983	7.856	7.981	9.018	8.775	8.926	9.656	9.788	9.728	11.154	10.611	10.93	13.056	13.123	13.252
Pd P[4]-C1735 with Thimerosal	125	134	LYKGGRRVWTF	8.83	3	8	1.542	1.16	1.429	1.234	1.354	1.316	1.371	1.327	1.286	1.35	1.422	1.427	1.685	1.574	1.522	2.323	2.419	2.406
Pd P[4]-C1735 with Thimerosal	125	151	LYKGGRRVWFHGETPRATDSSNADL	7.14	4	24	4.86	4.073	4.819	5.178	5.389	5.295	6.213	6.152	6.226	6.664	6.42	6.818	8.066	7.506	7.593	9.424	9.756	8.967
Pd P[4]-C1735 with Thimerosal	125	153	LYKGGRRVWFHGETPRATDSSNADLNN	6.18	4	26	6.765	6.528	6.905	7.76	7.694	7.371	8.503	8.434	8.401	9.026	9.166	9.1	10.388	9.839	10.095	11.912	12.197	12.364
Pd P[4]-C1735 with Thimerosal	125	155	LYKGGRRVWFHGETPRATDSSNADLNNIS	7.62	4	28	6.841	6.812	7.213	8.383	8.404	8.369	9.324	9.34	9.28	9.999	10.106	10.005	11.553	11.135	11.326	13.481	13.512	13.562
Pd P[4]-C1735 with Thimerosal	126	155	HYGRRVWFHGETPRATDSSNADLNNIS	6.74	4	27	6.981	6.757	7.184	8.346	8.569	8.43	9.561	9.429	9.421	10.195	10.3	10.21	11.761	10.974	11.385	13.391	13.66	13.682
Pd P[4]-C1735 with Thimerosal	135	151	KXGTRATDSSNADL	4.1	3	14	3.437	3.217	3.492	4.306	4.333	4.302	5.303	5.317	5.28	6.104	6.166	6.111	7.18	6.811	6.84	8.191	8.125	8.383
Pd P[4]-C1735 with Thimerosal	135	155	HGETPRATDSSNADLNNIS	4.76	3	18	5.154	5.293	5.388	6.521	6.502	6.478	7.777	7.826	7.681	8.647	8.673	8.599	9.875	9.23				

Pd P[4]-C1735 with 13A1	98	101	FEMF	9.22	1	2	-0.013	0.033	0.059	0.029	0.005	-0.027	-0.029	-0.017	-0.006	-0.004	-0.012	-0.02	-0.014	-0.005	-0.018	0.014	0.002	0
Pd P[4]-C1735 with 13A1	98	121	FEMFKGSSQGFDSNRRLTSSNRL	7.14	3	22	5.611	5.496	5.663	6.372	6.344	5.885	6.038	6.265	6.19	6.994	7.197	7.22	6.942	7.087	6.517	7.279	7.11	7.138
Pd P[4]-C1735 with 13A1	98	123	FEMFKGSSQGFDSNRRLTSSNRLVG	7.21	4	24	5.312	6.04	5.041	6.128	7.148	6.138	6.392	7.502	6.782	7.45	8.109	7.978	7.044	7.36	6.91	7.415	7.741	7.523
Pd P[4]-C1735 with 13A1	101	109	FKGSSQGF	4.87	2	7	3.917	3.971	3.859	4.207	4.223	4.176	4.389	4.566	4.532	4.856	4.54	4.762	4.568	4.592	4.458	4.835	4.625	4.1
Pd P[4]-C1735 with 13A1	101	121	FKGSSQGFDSNRRLTSSNRL	5.24	3	19	6.24	6.862	6.568	7.291	7.598	7.151	7.422	7.43	7.691	8.581	8.69	8.7	8.194	8.535	7.972	8.53	8.448	8.316
Pd P[4]-C1735 with 13A1	101	123	FKGSSQGFDSNRRLTSSNRLVG	5.42	4	21	6.207	6.792	6.499	7.119	7.471	7.043	7.317	7.287	7.538	8.336	8.427	8.483	8.067	8.378	7.819	8.487	8.426	8.286
Pd P[4]-C1735 with 13A1	101	125	FKGSSQGFDSNRRLTSSNRLVGM	7.72	4	23	6.195	6.752	6.115	7.028	7.167	6.672	7.072	6.852	7.232	8.213	8.03	8.109	7.923	8.023	7.236	8.38	8.215	8.236
Pd P[4]-C1735 with 13A1	102	121	KGSSQGFDSNRRLTSSNRL	4.89	4	18	5.53	6.154	5.95	6.565	6.751	6.6	6.669	6.668	6.984	7.749	7.882	7.96	7.404	7.787	7.344	7.674	7.712	7.706
Pd P[4]-C1735 with 13A1	122	124	VGM	2.91	1	1	0.03	0.037	0.123	0.104	0.02	0.045	0.013	0.028	0.04	0.009	0.031	0.021	0.069	0.054	0.075	0.18	0.157	0.13
Pd P[4]-C1735 with 13A1	122	125	VGML	5.69	1	2	0.053	0.039	0.069	0.023	0.02	0.026	0.068	0.018	0.028	0.099	0.093	0.162	0.13	0.114	0.096	0.299	0.252	0.356
Pd P[4]-C1735 with 13A1	122	134	VGMLKYGGRVWTF	9.5	3	11	1.248	1.451	1.381	1.143	1.425	1.364	1.218	1.298	1.312	1.305	1.399	1.381	1.398	1.506	1.393	2.028	2.078	2.013
Pd P[4]-C1735 with 13A1	122	147	VGMLKYGGRVWTFHGETPRATDSSN	7.33	4	23	3.057	3.308	2.665	2.899	3.264	3.376	2.973	3.589	3.621	3.934	4.011	4.069	3.953	4.291	3.982	5.664	5.889	5.725
Pd P[4]-C1735 with 13A1	122	153	VGMLKYGGRVWTFHGETPRATDSSNTADLNN	7.45	4	29	5.734	5.976	5.753	6.978	6.978	6.441	7.571	7.443	7.535	8.302	8.265	8.285	8.81	8.767	8.296	10.404	10.252	9.988
Pd P[4]-C1735 with 13A1	122	155	VGMLKYGGRVWTFHGETPRATDSSNTADLNNIS	7.75	4	31	5.802	5.931	5.792	7.276	6.841	6.573	7.228	6.875	7.182	8.149	8.11	8.132	8.508	8.196	8.028	10.585	10.277	9.522
Pd P[4]-C1735 with 13A1	124	134	MLKYGGRVWTF	9.17	3	9	1.28	1.414	1.38	1.178	1.471	1.444	1.287	1.328	1.412	1.349	1.471	1.459	1.487	1.563	1.456	2.019	2.071	1.999
Pd P[4]-C1735 with 13A1	124	151	MLKYGGRVWTFHGETPRATDSSNTADL	7.45	4	25	3.992	4.301	3.996	4.764	5.185	5.203	5.757	5.836	5.933	6.35	6.594	6.606	6.94	7.61	6.8	8.531	8.409	8.438
Pd P[4]-C1735 with 13A1	124	155	MLKYGGRVWTFHGETPRATDSSNTADLNNIS	7.41	4	29	5.878	6.219	6.102	7.108	7.28	7.356	8.111	7.746	8.122	8.824	8.69	8.762	9.033	9.477	8.925	11.211	11.204	10.461
Pd P[4]-C1735 with 13A1	125	134	LKYGGRVWTF	8.83	3	8	1.302	1.513	1.391	1.172	1.49	1.444	1.285	1.313	1.384	1.355	1.417	1.459	1.485	1.48	1.422	2.013	2.042	1.98
Pd P[4]-C1735 with 13A1	125	151	LKYGGRVWTFHGETPRATDSSNTADL	7.14	4	24	4.124	4.354	4.115	4.86	5.313	5.176	5.823	5.821	5.908	6.502	6.636	6.571	6.849	7.022	6.656	8.233	8.238	8.13
Pd P[4]-C1735 with 13A1	125	153	LKYGGRVWTFHGETPRATDSSNTADLNN	6.68	4	26	6.024	6.302	5.891	7.058	7.16	7.036	7.816	7.713	7.749	8.594	8.548	8.552	8.957	8.996	8.571	10.606	10.323	10.093
Pd P[4]-C1735 with 13A1	125	155	LKYGGRVWTFHGETPRATDSSNTADLNNIS	7.12	4	28	6.465	6.606	6.374	8.061	7.908	7.803	8.815	8.589	8.662	9.525	9.492	9.448	9.805	9.787	9.353	11.677	11.352	11.095
Pd P[4]-C1735 with 13A1	126	155	KYGGRRVWTFHGETPRATDSSNTADLNNIS	6.74	4	27	5.856	5.979	5.669	7.247	7.463	7.276	8.555	8.318	8.425	9.425	9.279	9.279	9.673	9.373	9.278	11.68	11.36	10.819
Pd P[4]-C1735 with 13A1	135	151	HGETPRATDSSNTADL	4.1	3	14	2.942	3.041	2.881	3.994	4.165	4.062	5.02	4.984	5.064	5.786	5.771	5.748	6.15	6.222	6.043	7.262	7.168	7.091
Pd P[4]-C1735 with 13A1	135	155	HGETPRATDSSNTADLNNIS	4.76	3	18	5.012	5.256	5.028	6.568	6.431	6.309	7.576	7.528	7.541	8.395	8.247	8.428	8.512	8.617	8.384	9.825	9.593	9.367
Pd P[4]-C1735 with 13A1	154	162	ISIIHSEF	8.38	2	7	0.138	0.151	0.16	0.22	0.223	0.215	0.414	0.393	0.411	0.734	0.736	0.738	1.047	1.046	1.016	1.689	1.712	1.73
Pd P[4]-C1735 with 13A1	156	161	IIHSE	3.8	2	4	0.153	0.169	0.152	0.206	0.199	0.212	0.335	0.312	0.348	0.637	0.621	0.62	0.879	0.895	0.834	1.255	1.343	1.365
Pd P[4]-C1735 with 13A1	156	162	IIHSEF	6.87	2	5	0.135	0.152	0.137	0.195	0.203	0.191	0.345	0.338	0.356	0.631	0.636	0.636	0.854	0.802	1.236	1.266	1.291	
Pd P[4]-C1735 with 13A1	157	162	IIHSEF	5.57	2	4	0.11	0.117	0.102	0.148	0.148	0.14	0.226	0.227	0.254	0.464	0.441	0.475	0.632	0.657	0.601	0.944	0.984	1.018
Pd P[4]-C1735 with 13A1	162	175	YIIPRSQESKSNE	5.95	3	11	2.557	2.738	2.571	3.292	3.358	3.21	3.604	3.57	3.696	4.51	4.499	4.495	4.942	5.061	4.79	5.413	5.382	5.317
Pd P[4]-C1735 with 13A1	163	170	YIIPRSQESKSNE	4.81	2	5	2.178	2.254	2.113	2.532	2.603	2.518	2.596	2.603	2.599	2.906	2.898	2.918	3.087	3.156	3.039	3.318	3.205	3.153
Pd P[4]-C1735 with 13A1	163	175	YIIPRSQESKSNE	4.17	3	10	2.88	3.039	2.845	3.59	3.701	3.581	4.058	4.02	4.165	5.021	4.994	5.004	5.446	5.556	5.291	5.917	5.867	5.792
Pd P[4]-C1735 with 13A1	163	181	YIIPRSQESKSNEYINNL	6.78	3	16	2.91	3.369	2.982	3.896	4.051	3.896	4.495	4.123	4.769	6.211	6.462	6.203	6.554	7.195	6.487	7.604	7.44	8.029
Pd P[4]-C1735 with 13A1	164	175	IIPRSQESKSNE	2.74	2	9	6.95	7.555	6.651	7.64	7.462	7.43	7.404	7.329	7.546	7.762	7.774	7.653	7.533	7.522	7.5	5.597	5.703	5.455
Pd P[4]-C1735 with 13A1	176	181	YINNL	5.3	2	4	0.124	0.22	0.172	0.259	0.261	0.194	0.387	0.388	0.363	0.762	0.744	0.733	0.931	0.971	0.961	1.239	1.269	1.281

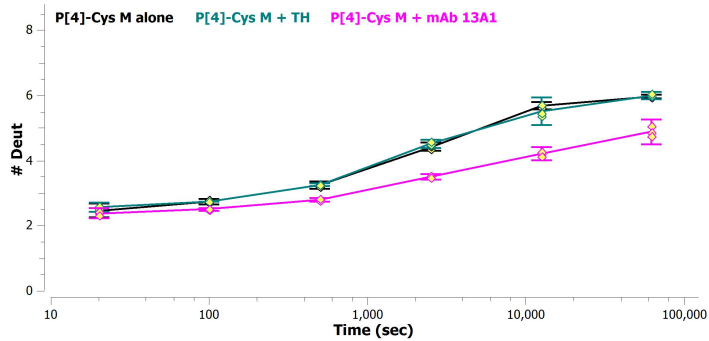




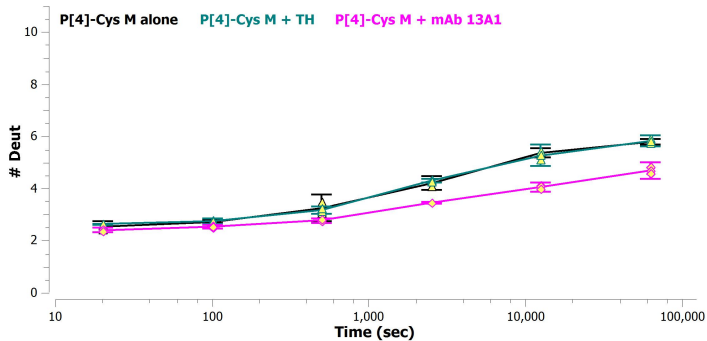
17-39: GSGSGVLDGPYQPTTFKPPNDYW (#21)



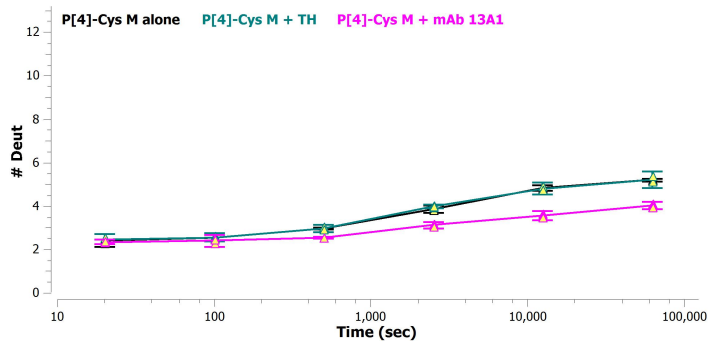
24-37: DGPYQPTTFKPPND (#22)



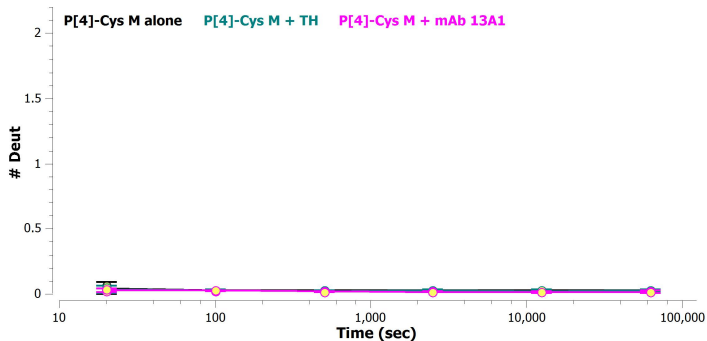
24-39: DGPYQPTTFKPPNDYW (#23)



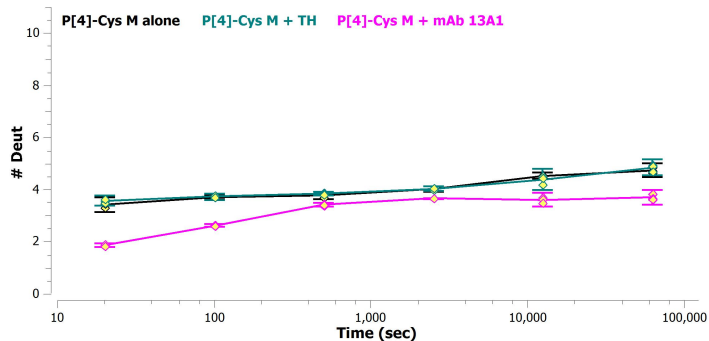
24-41: DGPYQPTTFKPPNDYWLL (#24)



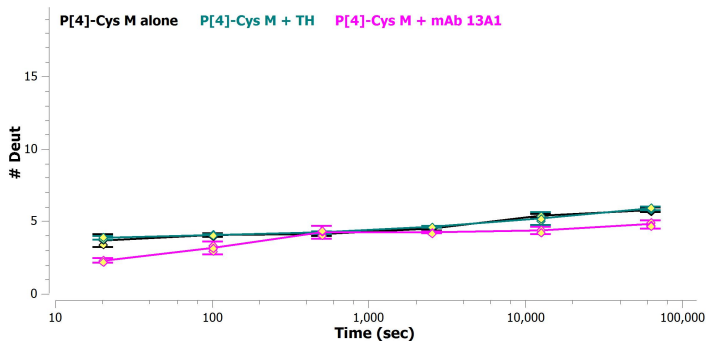
38-41: YWLL (#25)



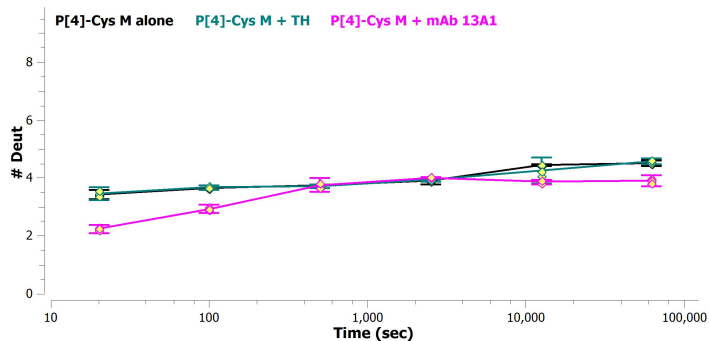
40-51: LLISSNTNGVVY (#26)



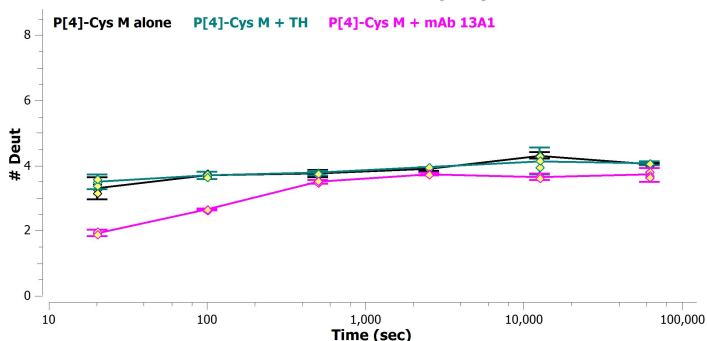
40-59: LLISSNTNGVVYESTNNDF (#27)



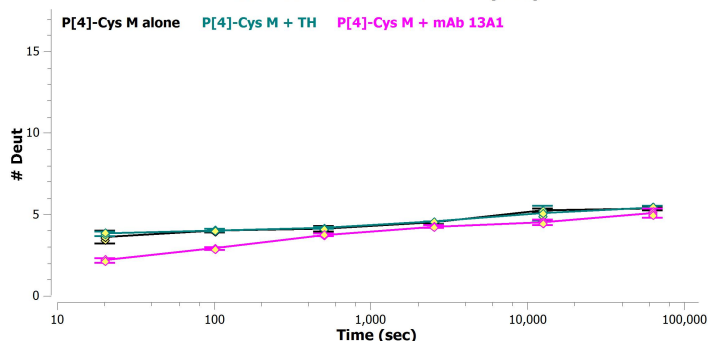
41-51: LISSNTNGVVY (#28)

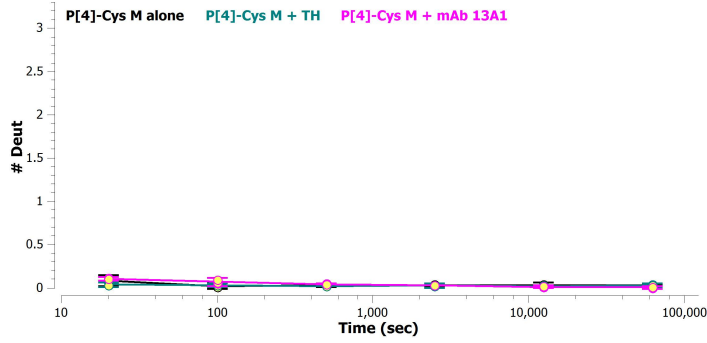
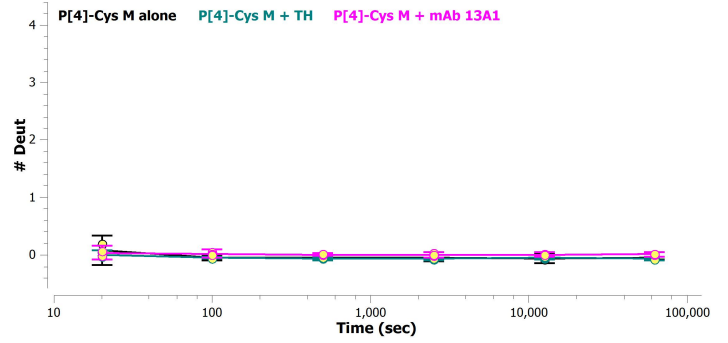
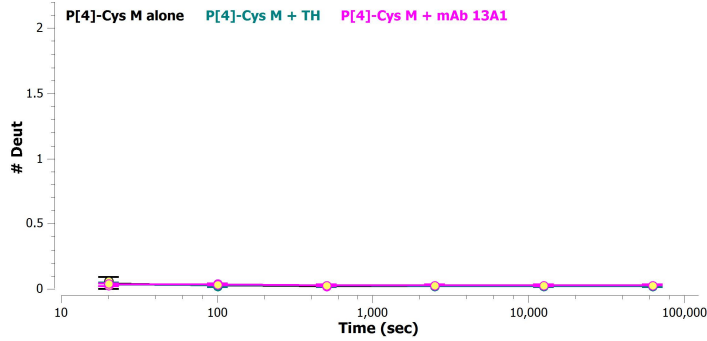
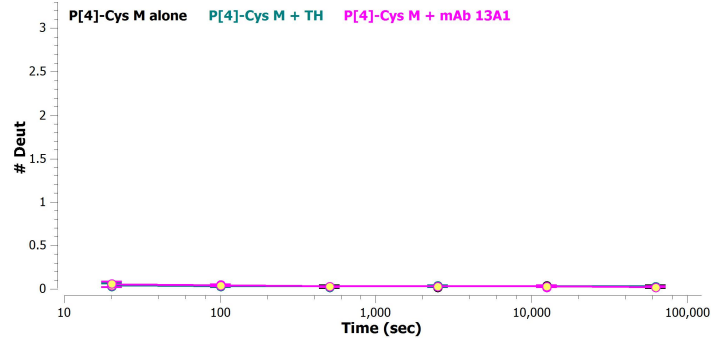
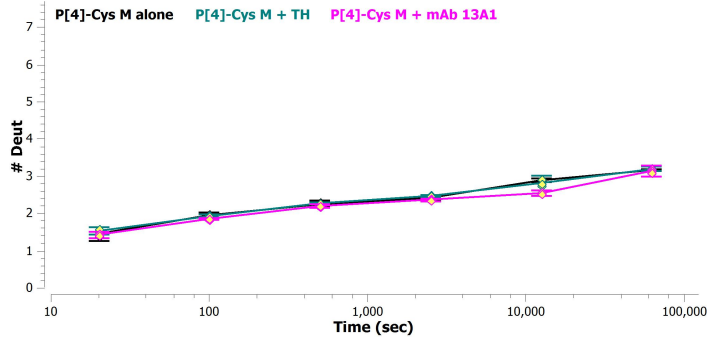
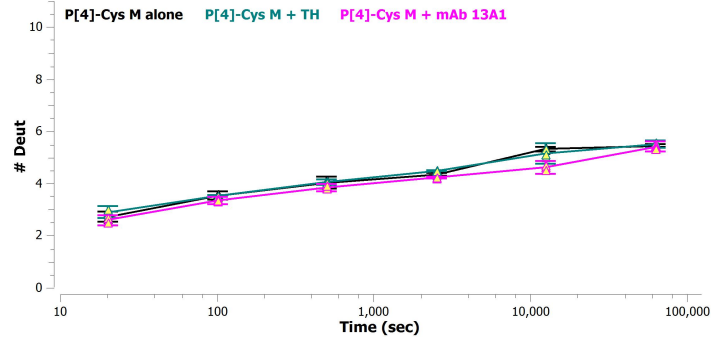
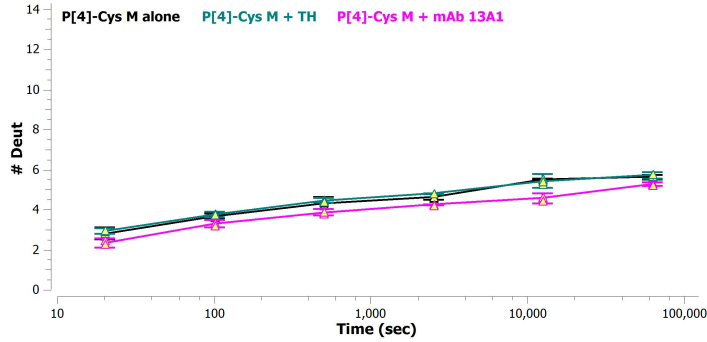
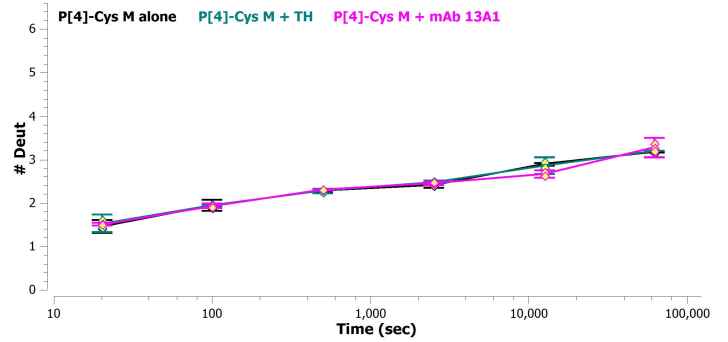
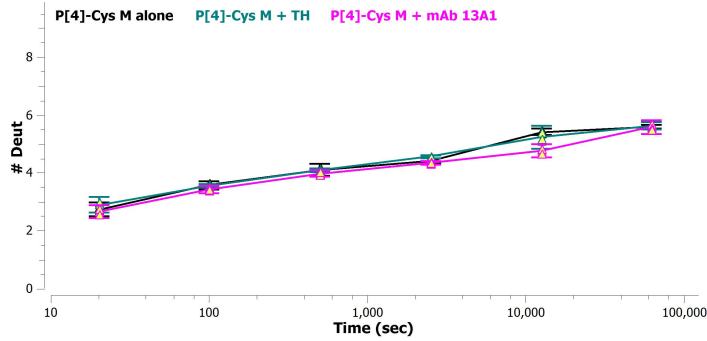


42-51: ISSNTNGVVY (#29)



42-59: ISSNTNGVVYESTNNDF (#30)



59-63: FWTAV (#31)**59-64: FWTAVI (#32)****60-63: WTAV (#33)****60-64: WTAVI (#34)****64-73: IAVEPHVSQT (#35)****64-76: IAVEPHVSQTNRQ (#36)****64-79: IAVEPHVSQTNRQYIL (#37)****65-73: AVEPHVSQT (#38)****65-76: AVEPHVSQTNRQ (#39)****65-79: AVEPHVSQTNRQYIL (#40)**