

Table S1. The linear extrapolated and the experimental T_1/T_2 values of EIAV-CA.

Residue Number	“0” mM		0.053 mM		0.106 mM		0.213 mM		0.426 mM	
	T_1/T_2	$\delta_{(T_1/T_2)}$	T_1/T_2	$\delta_{(T_1/T_2)}$	T_1/T_2	$\delta_{(T_1/T_2)}$	T_1/T_2	$\delta_{(T_1/T_2)}$	T_1/T_2	$\delta_{(T_1/T_2)}$
4	21.83	0.86	24.10	1.18	25.97	0.87	31.27	0.52	39.82	0.77
5	17.24	0.36	18.32	0.50	20.65	0.45	23.42	0.43	29.25	0.46
6	14.18	0.81	16.61	1.12	15.04	0.83	17.92	0.77	23.18	0.92
7	14.44	0.21	15.46	0.25	17.24	0.17	19.73	0.21	24.74	0.24
8	18.20	0.34	19.70	0.31	20.39	0.49	23.27	0.35	28.52	0.42
9	12.48	0.17	13.71	0.20	14.76	0.19	17.38	0.20	22.10	0.26
11	20.46	0.33	22.49	0.47	24.28	0.37	27.32	0.25	35.48	0.43
12	23.27	0.61	26.00	0.67	26.11	0.54	30.59	0.54	38.65	0.74
13	12.84	1.60	14.92	2.59	17.89	1.44	21.56	0.85	31.34	0.69
15	14.87	0.53	16.23	0.82	17.25	0.56	19.33	0.29	24.61	0.47
16	15.22	0.45	15.86	0.70	18.19	0.29	21.21	0.37	25.63	0.34
23	25.95	1.97	28.99	2.42	31.71	2.07	38.47	1.85	49.43	1.20
24	27.44	2.00	29.18	2.75	32.44	1.76	35.06	1.43	45.08	1.39
25	26.67	0.63	29.12	0.84	32.11	0.80	37.59	0.49	47.89	0.67
26	29.59	0.59	32.66	0.70	34.68	0.71	38.71	0.43	50.24	0.51
27	27.35	0.85	29.69	1.08	32.75	0.79	36.43	0.65	47.07	0.54
28	23.89	0.66	25.84	0.81	28.68	0.88	32.43	0.59	41.55	0.48
29	26.73	0.92	28.78	1.16	31.67	0.78	35.20	0.77	44.09	0.94
31	20.97	0.55	23.17	0.83	23.90	0.45	27.52	0.57	34.86	0.50
32	19.46	0.76	21.92	1.16	21.97	0.70	25.68	0.86	32.62	0.40

33	20.2 6	0.50	22.5 5	0.70	24.7 6	0.48	28.5 6	0.47	37.8 9	0.61
34	29.1 3	1.28	31.2 6	1.87	33.3 5	1.34	37.2 6	0.74	46.3 0	0.41
35	26.9 4	2.45	30.2 0	3.62	33.2 7	2.19	36.9 8	1.31	51.0 7	1.69
36	25.6 6	1.31	26.8 2	1.82	33.8 2	1.43	37.0 9	0.87	48.7 9	0.72
37	20.2 1	4.41	21.8 5	5.31	31.5 1	3.99	38.9 0	1.75	53.9 0	2.98
39	31.4 0	1.44	35.0 3	2.03	36.3 0	0.96	42.7 4	1.15	54.4 1	1.11
40	30.1 2	1.86	32.4 6	2.72	36.2 1	1.05	39.4 9	0.99	51.7 4	1.02
42	30.3 0	1.82	29.7 0	2.47	41.1 8	2.05	41.8 7	1.35	53.7 6	1.17
52	23.1 2	2.15	27.7 6	3.42	25.3 7	1.34	32.4 0	0.90	41.8 6	1.08
55	23.8 7	3.29	24.8 6	4.21	30.5 3	4.28	34.2 5	2.37	46.0 0	3.72
57	29.3 0	1.03	29.2 8	1.46	36.3 3	1.58	37.4 3	0.78	46.4 9	0.85
58	26.8 2	1.14	29.6 7	1.62	30.6 1	0.73	34.6 6	0.63	44.2 1	0.60
59	18.0 8	1.46	19.2 3	2.14	23.7 8	1.49	27.5 4	1.40	35.6 9	0.83
60	17.6 9	0.99	19.8 0	1.43	20.6 7	0.83	23.7 8	0.51	30.5 1	0.81
62	18.2 1	0.41	19.5 6	0.42	21.0 1	0.61	23.7 6	0.44	29.4 7	0.46
63	16.0 5	0.58	17.1 1	0.69	19.1 4	0.49	21.7 3	0.48	27.1 3	0.54
64	16.5 3	0.60	17.8 5	0.84	18.6 7	0.48	20.7 0	0.32	25.6 2	0.35
65	25.0 2	2.94	27.3 0	4.57	25.9 4	2.52	24.2 6	2.08	30.7 9	1.35
66	16.7 9	0.80	17.8 9	1.16	21.9 2	0.89	24.4 8	0.41	32.7 3	0.56
67	20.0 7	1.04	23.1 8	1.38	24.7 6	1.00	28.7 3	0.81	39.7 7	0.64
69	22.1 0	1.00	24.0 4	1.27	25.9 0	1.15	28.5 9	0.83	36.3 1	0.79
71	21.7 5	0.79	24.5 5	1.18	26.0 6	0.73	29.7 6	0.32	39.9 3	0.54
72	24.2 6	1.33	25.5 8	1.90	27.6 2	1.25	32.7 1	0.92	38.8 5	0.82

73	18.9 8	0.60	21.2 1	0.93	23.4 2	0.64	27.7 9	0.68	36.9 3	0.54
75	17.9 9	3.93	20.2 1	6.18	22.9 3	4.80	27.4 1	1.98	39.0 3	1.96
76	23.2 0	0.79	26.4 8	1.06	28.1 6	1.19	29.8 3	0.61	42.2 7	1.09
77	21.6 9	2.72	24.3 9	4.51	25.4 7	1.44	27.4 3	1.34	37.8 2	1.38
78	25.3 2	1.50	28.3 3	2.42	27.9 4	1.00	32.4 8	0.88	40.7 8	0.48
79	23.0 0	1.44	25.5 8	2.17	26.9 3	1.31	32.3 7	0.99	41.2 4	0.76
80	21.5 5	0.84	22.5 6	1.54	26.4 2	0.83	29.3 7	0.59	36.8 3	0.53
82	16.4 2	4.15	22.3 0	6.75	15.5 0	3.44	29.8 8	3.71	37.0 9	2.74
83	22.6 7	0.90	25.1 7	1.31	27.4 7	0.64	31.5 4	0.47	41.2 1	0.83
84	17.8 4	0.83	19.6 4	1.22	21.8 7	0.60	25.4 7	0.64	33.0 3	0.64
85	21.0 8	0.59	23.9 5	0.82	23.6 3	0.61	28.1 3	0.31	35.5 2	0.48
87	23.4 3	0.41	25.1 6	0.53	27.5 3	0.44	30.6 7	0.38	38.4 6	0.37
92	20.0 5	0.36	22.3 4	0.46	22.8 4	0.31	26.6 2	0.33	33.6 3	0.22
93	19.8 0	0.61	21.6 0	0.72	24.2 4	0.54	27.8 4	0.40	36.2 1	0.49
94	19.8 4	0.55	22.4 9	0.68	23.2 5	0.59	26.8 5	0.49	35.4 7	0.54
97	16.8 3	0.41	18.4 6	0.33	19.8 2	0.53	23.4 9	0.48	29.5 8	0.67
98	15.0 6	0.33	16.7 3	0.43	18.4 3	0.26	21.3 6	0.42	28.0 7	0.41
100	17.3 9	0.36	19.2 5	0.45	20.9 9	0.40	23.3 4	0.37	31.0 5	0.35
102	23.3 9	1.13	26.2 0	1.70	25.7 9	1.03	27.7 5	1.00	36.2 7	0.96
104	20.4 2	0.66	22.1 3	0.82	25.0 2	0.72	26.8 5	0.37	35.6 7	0.47
106	18.6 1	0.70	20.7 3	0.93	22.2 2	0.55	26.7 3	0.53	34.7 8	0.59
107	19.6 2	0.78	22.6 9	0.87	22.6 0	0.95	26.4 2	0.62	35.7 0	0.95
108	17.8 2	0.74	21.6 1	1.05	22.2 5	0.55	27.8 1	0.48	39.1 3	0.62

109	17.3 1	0.87	18.7 3	1.12	21.5 7	0.84	24.7 2	0.70	32.2 8	0.93
110	19.9 4	0.57	23.0 4	0.74	23.5 3	0.52	27.0 9	0.34	36.8 6	0.67
111	18.5 0	0.55	20.1 4	0.76	22.0 5	0.39	26.9 2	0.30	33.6 5	0.45
112	32.1 5	2.82	35.6 3	4.56	32.9 9	1.35	39.6 0	1.28	45.9 0	1.04
114	16.1 2	0.68	18.2 9	0.98	19.8 6	0.71	22.7 5	0.52	30.9 9	0.61
115	16.7 7	0.29	18.6 0	0.44	20.1 8	0.25	24.0 5	0.19	31.0 0	0.27
116	19.9 7	1.58	20.3 9	1.85	25.1 7	2.13	26.4 9	1.68	32.8 6	0.66
117	18.8 3	1.11	20.7 3	1.59	23.4 3	1.04	24.8 1	0.66	34.2 0	0.53
118	19.4 1	1.07	21.0 5	1.43	22.0 8	0.80	26.1 5	0.77	32.3 5	0.87
119	18.2 8	1.96	20.3 3	2.71	21.0 6	1.62	28.2 2	1.43	33.5 5	1.17
122	20.5 0	0.71	22.3 4	1.06	25.1 9	0.48	29.6 4	0.50	38.1 6	0.56
123	29.6 2	3.26	34.9 5	4.58	33.5 1	3.12	47.0 6	3.21	56.8 3	2.11
124	32.6 7	4.81	37.9 4	8.52	34.9 9	4.22	39.5 0	2.22	48.8 3	1.56
125	28.2 2	2.79	30.3 9	4.15	31.1 0	2.03	36.6 8	1.62	43.2 5	1.03
128	25.8 4	1.62	28.0 2	1.87	31.9 6	2.00	33.6 1	1.47	44.7 3	1.03
136	30.5 5	0.56	32.7 2	0.81	36.6 4	0.70	40.2 8	0.66	51.4 8	0.76
137	28.5 7	2.16	29.0 5	2.89	36.9 2	1.83	41.3 9	1.78	53.0 4	1.59
139	30.3 7	1.07	30.9 9	1.23	39.7 2	1.17	42.9 6	0.66	55.0 4	1.06
140	24.9 5	1.20	23.4 1	1.59	35.6 0	1.50	39.6 8	1.28	49.2 5	1.25
141	34.5 4	2.55	37.4 7	3.82	36.9 4	2.41	38.5 7	2.36	48.5 7	0.99
142	31.8 1	0.91	33.7 0	1.20	37.7 3	0.90	43.2 4	1.08	53.3 1	0.73
143	32.3 1	0.81	35.2 1	1.07	36.8 8	0.92	41.1 5	0.63	51.5 9	0.60
145	25.3 0	0.62	27.5 6	0.74	28.8 7	0.58	35.8 3	0.47	43.1 3	0.38

146	20.3 3	0.54	21.4 6	0.69	23.7 9	0.34	27.1 0	0.47	32.9 6	0.54
149	11.2 0	0.17	12.0 5	0.24	13.4 3	0.07	14.9 4	0.15	19.0 2	0.13
150	15.8 1	0.34	17.0 2	0.51	19.4 9	0.48	21.8 2	0.46	28.2 6	0.36
151	17.3 7	0.54	19.1 9	0.72	20.0 2	0.42	23.6 0	0.42	29.7 7	0.51
152	12.7 2	0.20	14.4 5	0.26	15.5 7	0.23	17.8 8	0.26	24.3 7	0.26
153	13.6 8	0.27	15.1 7	0.39	16.2 5	0.27	18.9 3	0.23	24.5 2	0.17
154	14.9 0	0.34	16.7 7	0.42	17.7 9	0.29	21.1 2	0.25	27.6 3	0.50
155	13.7 9	0.44	15.6 0	0.68	16.5 8	0.43	19.5 4	0.39	26.2 1	0.62
156	11.4 6	0.13	12.9 1	0.17	13.8 8	0.12	16.8 7	0.10	22.0 8	0.15
157	19.1 2	1.27	20.8 8	2.31	22.5 4	0.84	26.0 0	0.91	31.9 9	1.11
158	17.4 8	0.84	18.4 5	1.23	22.0 9	0.93	25.9 4	0.73	32.7 1	0.48
159	12.7 0	0.30	14.2 5	0.42	15.2 0	0.21	17.4 8	0.31	23.4 1	0.36
161	16.8 1	0.64	18.3 8	0.72	20.8 9	0.76	23.5 3	0.44	31.3 8	0.63
163	15.1 1	0.52	17.1 0	0.76	18.1 2	0.46	20.2 9	0.51	27.4 7	0.31
164	17.9 7	0.83	19.9 4	1.12	21.5 7	1.05	25.5 0	0.77	33.4 6	0.77
165	18.0 1	0.51	20.2 0	0.88	20.8 2	0.49	24.9 2	0.29	31.7 4	0.31
166	16.3 4	0.47	17.9 5	0.61	19.8 1	0.39	22.6 4	0.43	29.7 8	0.34
167	16.1 0	0.52	17.6 9	0.69	20.1 6	0.47	23.8 2	0.46	31.2 6	0.37
168	17.9 0	0.55	19.6 7	0.68	21.3 9	0.45	24.4 9	0.50	31.6 9	0.35
169	16.6 9	0.35	18.3 4	0.46	20.7 9	0.44	23.5 2	0.17	31.1 2	0.19
170	14.6 6	0.40	16.8 8	0.52	17.6 8	0.29	21.0 8	0.25	28.4 3	0.25
171	16.7 4	0.30	18.3 1	0.39	20.6 4	0.27	23.2 1	0.25	30.6 5	0.28
172	17.3 5	0.37	19.3 8	0.52	20.7 5	0.38	24.5 9	0.21	32.0 4	0.35

173	16.2 6	0.27	17.8 8	0.38	19.9 8	0.13	24.2 1	0.20	31.0 1	0.32
174	15.7 3	0.28	17.0 2	0.37	19.0 1	0.34	21.2 2	0.19	27.3 9	0.25
175	17.8 8	0.42	19.6 7	0.55	21.4 8	0.26	23.8 2	0.38	31.4 2	0.50
176	16.1 9	0.35	17.8 3	0.41	18.7 7	0.44	21.6 6	0.44	27.5 6	0.40
177	15.1 4	0.20	16.9 8	0.28	17.9 2	0.17	20.5 2	0.20	27.1 1	0.17
179	14.3 7	0.89	15.0 0	1.33	19.4 9	1.04	19.7 3	0.35	26.7 7	0.59
180	14.5 6	0.28	16.0 2	0.41	17.7 9	0.23	20.6 0	0.27	26.8 4	0.35
182	13.6 1	0.32	15.5 9	0.38	16.2 9	0.32	19.1 8	0.19	25.6 9	0.23
183	12.7 1	0.36	14.5 9	0.43	15.5 9	0.22	15.4 7	0.32	23.1 9	0.45
184	14.8 2	0.29	16.6 6	0.32	17.7 0	0.37	21.5 8	0.33	28.0 1	0.44
185	13.4 6	0.21	14.9 0	0.31	17.1 0	0.18	19.8 5	0.13	26.5 8	0.16
186	14.4 5	0.27	16.1 7	0.31	16.6 8	0.31	19.4 0	0.24	25.0 9	0.41
187	15.6 3	0.26	17.7 7	0.30	18.2 6	0.25	20.8 1	0.24	27.7 4	0.24
188	15.4 9	0.84	16.9 6	1.00	19.7 3	0.86	22.0 4	0.90	29.8 4	1.02
189	14.1 0	0.27	15.7 4	0.33	17.0 4	0.27	20.1 6	0.30	26.4 3	0.32
190	14.6 5	0.84	16.4 1	1.12	17.0 5	0.70	20.7 3	0.84	26.5 7	0.56
191	15.4 8	0.49	16.9 3	0.54	19.1 4	0.46	21.6 1	0.56	28.3 3	0.81
192	13.2 8	0.29	14.9 7	0.33	16.3 1	0.33	18.6 5	0.27	25.2 9	0.25
193	13.6 2	0.30	15.0 7	0.36	16.3 8	0.29	19.0 8	0.23	24.8 7	0.17
194	12.9 1	0.42	14.7 8	0.49	15.6 8	0.44	18.4 6	0.33	24.9 7	0.63
196	15.3 9	0.21	17.1 9	0.32	17.8 0	0.19	21.3 4	0.14	27.0 3	0.26
197	15.5 9	0.30	17.3 3	0.40	18.3 8	0.22	21.6 8	0.18	27.8 5	0.26
198	16.1 8	0.44	18.4 6	0.74	19.4 6	0.32	22.8 6	0.32	30.5 5	0.29

199	16.3 8	0.35	18.2 5	0.41	19.2 7	0.42	20.8 9	0.22	28.0 5	0.25
201	15.3 7	0.33	16.6 8	0.40	18.6 6	0.37	21.8 7	0.27	27.8 3	0.15
202	15.6 1	0.33	17.2 4	0.43	19.0 2	0.33	22.0 6	0.25	28.8 2	0.22
203	12.8 0	0.28	14.1 0	0.32	15.6 7	0.37	17.8 5	0.32	23.7 0	0.41
204	13.5 6	1.38	15.9 5	2.08	14.6 9	1.46	14.8 2	1.30	20.7 9	0.88
206	14.1 2	0.18	15.8 0	0.25	16.4 3	0.16	19.6 5	0.19	25.0 7	0.19
208	11.0 7	0.26	12.5 7	0.25	13.8 2	0.32	15.9 9	0.26	21.9 5	0.30
209	13.9 7	0.27	15.8 4	0.33	16.0 1	0.28	19.2 0	0.23	24.6 7	0.23
210	16.6 8	0.33	18.6 9	0.48	19.9 9	0.33	23.4 2	0.26	30.8 5	0.34
211	12.8 7	0.20	14.3 5	0.20	16.0 5	0.25	19.2 7	0.21	25.4 8	0.47
212	13.7 3	0.33	15.5 3	0.46	16.0 3	0.26	19.0 2	0.33	24.6 1	0.44
215	12.5 2	0.26	13.7 8	0.23	15.8 4	0.41	18.2 8	0.26	24.4 9	0.30
216	14.0 4	0.29	15.5 4	0.41	17.7 1	0.22	20.2 6	0.15	27.2 6	0.30
217	14.6 7	0.23	16.5 0	0.39	17.4 1	0.21	19.7 6	0.32	26.3 9	0.25
218	13.1 4	0.58	14.8 7	0.57	16.3 7	0.70	19.6 4	0.70	26.2 7	0.84
220	10.5 8	0.12	12.1 0	0.16	12.1 8	0.12	14.7 0	0.14	19.0 4	0.14