

**Table C.**  $^1\text{H}$  NMR chemical shifts of the free 4P-hNrf2 peptide in ppm from TSP-d4. Spectra were recorded at 280 K, pH = 7.2, and 20 mM sodium phosphate buffer;  $\text{H}_2\text{O}:\text{D}_2\text{O}$ , 9:1 (v/v).

Residue	Peptide	NH	$\alpha\text{H}$	$\beta\text{H}$	Others
	$\text{CH}_3\text{CO}$	-	-	-	$\text{CH}_3$ 2.12
P333	P1	-	4.42	2,46	$\gamma\text{CH}_2$ 2.05; $\delta\text{CH}_2$ 3.38
E334	E2	8.96	4.37	1.94; 2.08	$\gamma\text{CH}_2$ 2.30
S335	S3	8.72	4.51	3.87	
T336	T4	8.37	4.34	4.29	$\gamma\text{CH}_3$ 1.19
A337	A5	8.38	4.30	1.32	
E338	E6	8.34	4.17	1.89; 2.08	$\gamma\text{CH}_2$ 2.14; 2.23
F339	F7	8.33	4.60	3.00; 3.12	$\delta\text{H}$ 7.25; $\epsilon\text{H}$ 7.33; $\zeta\text{H}$ 7.28
N340	N8	8.46	4.67	2.68; 2.79	$\gamma\text{NH}_2$ 7.02; 7.71
D341	D9	8.44	4.62	2,74	
S342	S10	8.35	4.45	3.83; 3.92	
D343	D11	8.52	4.70	2.75; 2.84	
pS344	pS12	8.86	4.53	4.08	
G345	G13	8.59	3.96	-	
I346	I14	7.94	4.20	1.92	$\gamma\text{CH}_2$ ; 1.19; $\gamma\text{CH}_3$ 0.95; $?\delta\text{CH}_3$ 0.89
pS347	pS15	8.76	4.54	4.08	
L348	L16	8.45	4.33	1.64	$\gamma\text{H}$ 1.60; $\delta\text{CH}_3$ 0.87; 0.92
N349	N17	8.50	4.76	2.75; 2.84	$\gamma\text{NH}_2$ 7.06; 7.78
T350	T18	8.24	4.32	4.25	$\gamma\text{CH}_3$ 1.20
pS351	pS19	8.64	4.85	4.10	
P352	P20	-	4.44	2,30	$\gamma\text{CH}_2$ 1.93; $\delta\text{CH}_2$ 3.87
S353	S21	8.53	4.50	3.84	
V354	V22	8.30	4.15	2.07	$\gamma\text{CH}_3$ 0.92
A355	A23	8.46	4.31	1.37	
pS356	pS24	8.62	4.85	4.10	
P357	P25	-	4.37	2,31	$\gamma\text{CH}_2$ 1.86; $\delta\text{CH}_2$ 3.79
E358	E26	8.67	4.17	1.96; 2.01	$\gamma\text{CH}_2$ 2.29; 2.33
H359	H27	8.60	4.73	3.19; 3.29	$\delta\text{H}$ 7.30; $\epsilon\text{H}$ 8.59
S360	S28	8.58	4.46	3.84	
V361	V29	8.43	4.18	2.13	$\gamma\text{CH}_3$ 0.96
E362	E30	8.15	4.16	1.87	$\gamma\text{CH}_2$ 2.04; 2.27
	$\text{CONH}_2$	-	-	-	7.11; 7.59