Supplementary Table 1, Deep, et al.

^{15}N T_1, ^{15}N T_2, and $^{15}N\{^1H\}$ NOE Relaxation Parameters for ^{15}N ecTβR2 at 27 °C and 14.1 Tesla[a]

Res.	T_1-1 (sec)	T_1-2 (sec)	T_2-1[b] (sec)	T_2-2 (sec)	NOE-1[c]	NOE-2[c]
17	0.916	0.925	0.610	0.618	-0.599	-0.585
18	0.884	0.884	0.591	0.564	-0.493	-0.502
20	0.866	0.861	0.583	0.559	-0.338	-0.340
21	0.848	0.847	0.466	0.475	-0.293	-0.280
23	0.755	0.758	0.216	0.217	0.067	0.060
24	0.717	0.718	0.048	0.050	0.452	0.440
26	0.652	0.662	0.072	0.073	0.669	0.679
28	0.702	0.700	0.080	0.079	0.779	0.746
29	0.673	0.668	0.094	0.097	0.791	0.724
30	0.651	0.645	0.099	0.100	0.768	0.774
31	0.679	0.692	0.095	0.094	0.777	0.757
33	0.736	0.728	0.100	0.102	0.745	0.743
34	0.678	0.680	0.097	0.098	0.765	0.767
35	0.718	0.721	0.103	0.103	0.750	0.748
36	0.707	0.693	0.097	0.096	0.814	0.854
37	0.739	0.774	0.098	0.100	0.744	0.750
38	0.707	0.702	0.091	0.093	0.720	0.687
39	0.655	0.664	0.088	0.085	0.716	0.765
40	0.735	0.734	0.085	0.086	0.754	0.689
41	0.707	0.708	0.096	0.099	00.735	0.703
42	0.692	0.677	0.099	0.101	0.659	0.679
43	0.727	0.723	0.081	0.084	0.677	0.685
44	0.716	0.711	0.090	0.092	0.794	0.743
45	0.746	0.760	0.084	0.084	0.719	0.654
46	0.726	0.725	0.086	0.087	0.770	0.713
47	0.669	0.672	0.087	0.088	0.798	0.748
49	0.666	0.616	0.083	0.081	0.705	0.778
50	0.766	0.751	0.100	0.101	0.775	0.789
51	0.703	0.711	0.104	0.106	0.745	0.754
52	0.688	0.698	0.089	0.090	0.797	0.788
54	0.659	0.644	0.062	0.063	0.783	0.727
55	0.807	0.790	0.089	0.091	0.684	0.706
56	0.790	0.787	0.088	0.090	0.733	0.737
58	0.690	0.689	0.083	0.085	0.724	0.757
59	0.712	0.702	0.091	0.088	0.760	0.724
60	0.696	0.692	0.047	0.049	0.803	0.794
61	0.674	0.657	0.094	0.095	0.740	0.728
62	0.662	0.683	0.096	0.097	0.769	0.752

64	0.646	0.664	0.098	0.098	0.756	0.749
65	0.650	0.627	0.097	0.092	0.849	0.761
66	0.631	0.641	0.099	0.099	0.783	0.758
67	0.665	0.672	0.099	0.102	0.719	0.763
68	0.672	0.668	0.107	0.108	0.735	0.695
69	0.727	0.761	0.091	0.092	0.624	0.626
70	0.742	0.744	0.077	0.077	0.568	0.610
73	0.632	0.643	0.090	0.091	0.755	0.751
74	0.668	0.654	0.093	0.092	0.787	0.771
75	0.636	0.659	0.093	0.090	0.865	0.730
76	0.647	0.654	0.092	0.095	0.743	0.784
77	0.675	0.690	0.095	0.097	0.796	0.870
80	0.694	0.686	0.099	0.100	0.751	0.823
82	0.649	0.655	0.091	0.092	0.738	0.744
85	0.693	0.694	0.097	0.099	0.782	0.787
86	0.698	0.687	0.095	0.096	0.665	0.628
87	0.720	0.713	0.092	0.093	0.777	0.748
88	0.683	0.694	0.100	0.100	0.758	0.728
89	0.752	0.752	0.106	0.105	0.705	0.736
90	0.739	0.764	0.099	0.104	0.699	0.740
91	0.834	0.845	0.108	0.107	0.541	0.546
92	0.664	0.667	0.093	0.093	0.762	0.749
93	0.664	0.654	0.101	0.103	0.681	0.707
95	0.692	0.710	0.096	0.097	0.706	0.734
102	0.695	0.662	0.099	0.099	0.782	0.770
103	0.663	0.669	0.100	0.101	0.776	0.815
104	0.766	0.779	0.110	0.111	0.666	0.672
105	0.724	0.728	0.105	0.105	0.627	0.622
107	0.749	0.739	0.120	0.119	0.599	0.565
108	0.666	0.668	0.100	0.102	0.712	0.727
109	0.710	0.715	0.106	0.107	0.668	0.643
110	0.680	0.675	0.088	0.088	0.770	0.735
111	0.659	0.659	0.077	0.081	0.764	0.805
115	0.622	0.641	0.091	0.090	0.753	0.756
116	0.674	0.682	0.081	0.080	0.724	0.787
118	0.727	0.732	0.093	0.093	0.788	0.793
119	0.707	0.693	0.092	0.095	0.757	0.740
122	0.729	0.744	0.089	0.088	0.819	0.807
123	0.848	0.830	0.107	0.102	0.643	0.756
126	0.669	0.658	0.099	0.096	0.711	0.777
127	0.682	0.685	0.127	0.128	0.654	0.633
128	0.654	0.661	0.150	0.152	0.443	0.449
129	0.617	0.629	0.203	0.203	0.313	0.301
130	0.644	0.635	0.235	0.240	0.182	0.215
131	0.652	0.657	0.302	0.304	0.057	0.047
132	0.741	0.745	0.389	0.397	-0.143	-0.139

134	0.880	0.895	0.574	0.573	-0.453	-0.427
136	1.188	1.188	1.004	1.001	-0.995	-0.983

[a] All relaxation parameters were measured twice, as indicated by the -1 (measurement 1) and -2 (measurement 2) suffix added to the column headers.

[b] Measured using a CPMG sequence with a period of 1 ms between the center of the ^{15}N π refocusing pulses (80 μs).

[c] $^{15}N\{^{1}H\}$NOE values have been corrected for finite ^{15}N T_1 and $^{1}H^{N}$ T_1 relaxation times using the expression given by Freedberg, et al. (*Protein Sci.*, **11**, 221-232, 2002).