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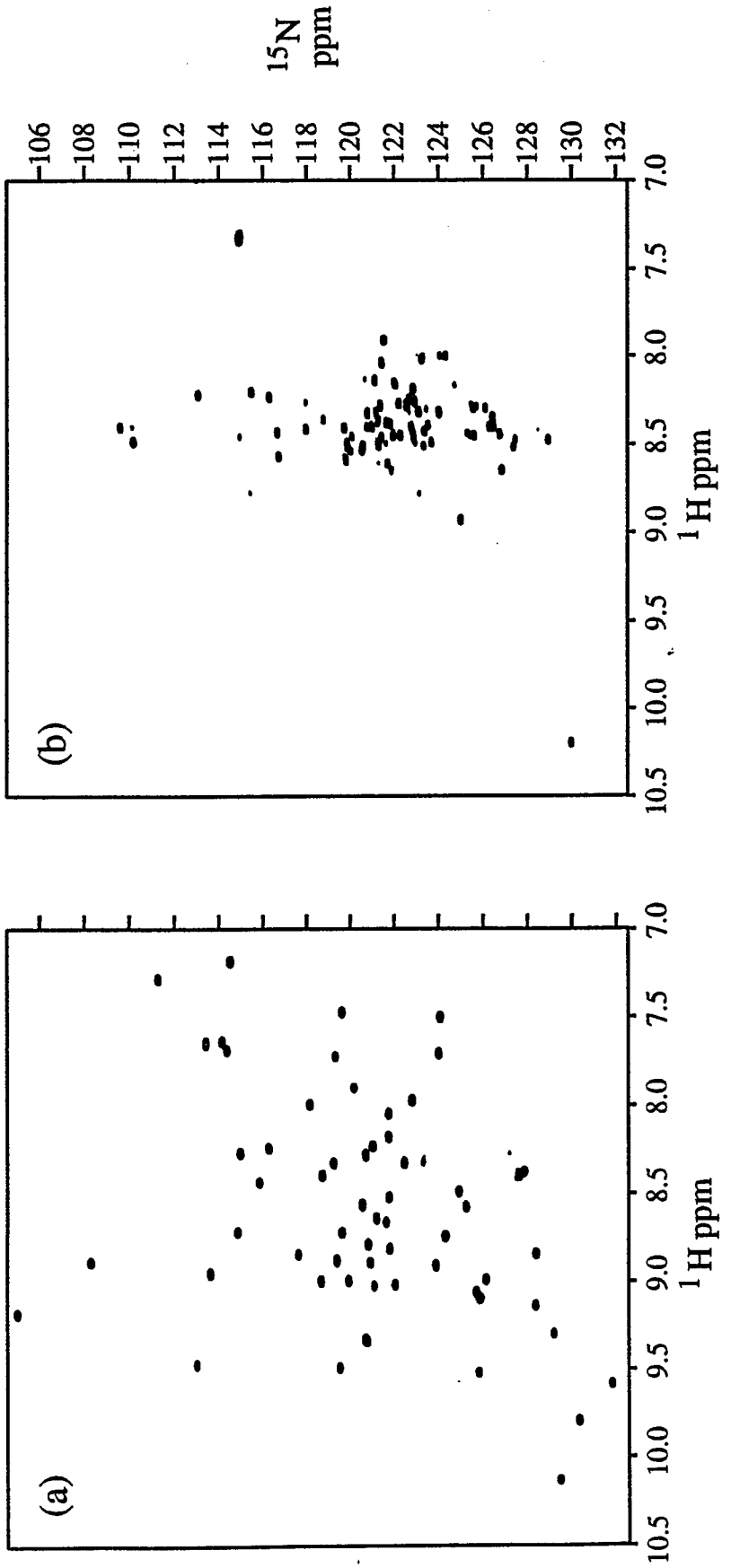
SUPPLEMENTARY MATERIAL

FIGURE S1: 2D ^{1}H-^{15}N correlation spectra of (a) the folded (F_S) state of drkN SH3 obtained in the presence of 0.4 M Na_2SO_4 and (b) the guanidinium chloride-unfolded (U_{Gdn}) state of the drkN SH3 domain. The spectra correspond to the first time point of a T_1 series (T = 0.011 s), and were recorded at 14°C on a 600 MHz spectrometer. Note that while the NH chemical shift dispersion of the unfolded protein is reduced relative to that of the folded state, the majority of peaks remain well resolved. In (b) the peak with ^{1}H and ^{15}N chemical shifts of 7.3 and 115 ppm, respectively, corresponds to the signal arising from guanidinium chloride.

FIGURE S1


(a)
(b)
^{15}N ppm
^{1}H ppm
^{1}H ppm
106
108
110
112
114
116
118
120
122
124
126
128
130
132
7.0
7.5
8.0
8.5
9.0
9.5
10.0
10.5

Supplementary Material Table 1: ^{15}N Relaxation Parameter Values for the Folded State of drkN SH3, 14°C[a]

	500 MHz						600 MHz					
Res.	T_1	[b]σT_1	T_2	σT_2	NOE	σNOE	T_1	σT_1	T_2	σT_2	NOE	σNOE
1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
2	0.511	0.005	0.140	0.004	0.611	0.036	0.638	0.006	0.144	0.003	0.646	0.036
3	0.466	0.010	0.129	0.001	0.717	0.054	0.585	0.009	0.135	0.004	0.826	0.054
4	0.463	0.005	0.127	0.003	0.724	0.078	0.584	0.007	0.137	0.004	0.749	0.078
5	0.441	0.003	0.130	0.002	0.783	0.071	0.539	0.009	0.127	0.002	0.848	0.071
6	0.445	0.011	0.121	0.002	0.847	0.044	0.576	0.011	0.117	0.004	0.869	0.044
7	0.459	0.005	0.126	0.004	0.749	0.027	0.592	0.007	0.135	0.002	0.815	0.027
8	0.483	0.006	0.135	0.002	0.762	0.056	0.623	0.008	0.136	0.002	0.813	0.056
9	0.450	0.004	0.129	0.003	0.754	0.009	0.569	0.009	0.126	0.002	0.821	0.009
10	0.475	0.005	0.136	0.002	0.711	0.016	0.615	0.008	0.137	0.001	0.792	0.016
11	0.428	0.004	0.126	0.002	0.814	0.002	0.568	0.009	0.127	0.003	0.833	0.002
12	0.499	0.006	0.136	0.002	0.563	0.036	0.628	0.013	0.133	0.003	0.721	0.036
13	0.557	0.003	0.154	0.002	0.584	0.009	0.696	0.009	0.152	0.004	0.667	0.009
14	0.517	0.006	0.133	0.001	0.694	0.032	0.645	0.009	0.137	0.002	0.710	0.032
15	0.474	0.004	0.134	0.001	0.673	0.033	0.589	0.011	0.139	0.002	0.730	0.033
16	0.485	0.004	0.117	0.002	0.715	0.019	0.614	0.011	0.110	0.002	0.782	0.019
17	0.469	0.006	0.129	0.002	0.849	0.019	0.576	0.016	0.132	0.002	0.808	0.019
18	0.515	0.004	0.143	0.003	0.589	0.032	0.619	0.007	0.144	0.001	0.776	0.032
19	0.443	0.004	0.127	0.002	0.760	0.049	0.564	0.009	0.127	0.002	0.784	0.049
20	0.449	0.005	0.130	0.003	0.706	0.065	0.568	0.012	0.131	0.003	0.898	0.065
21	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
22	0.456	0.008	0.110	0.002	0.679	0.030	0.577	0.012	0.114	0.002	0.821	0.030
23	0.443	0.009	0.117	0.001	0.748	0.065	0.555	0.008	0.119	0.001	0.844	0.065
24	0.483	0.009	0.133	0.002	0.716	0.090	0.580	0.008	0.135	0.002	0.832	0.090
25	0.474	0.006	0.131	0.004	0.697	0.055	0.583	0.012	0.130	0.003	0.737	0.055
26	0.468	0.006	0.124	0.001	0.822	0.008	0.601	0.009	0.132	0.002	0.844	0.008
27	0.488	0.005	0.126	0.002	0.801	0.051	0.617	0.008	0.130	0.002	0.833	0.051
28	0.478	0.017	0.128	0.004	0.805	0.014	0.579	0.014	0.121	0.005	0.797	0.014
29	0.496	0.004	0.129	0.001	0.679	0.028	0.614	0.008	0.127	0.003	0.843	0.028
30	0.480	0.007	0.126	0.003	0.705	0.038	0.614	0.015	0.136	0.003	0.734	0.038
31	0.488	0.006	0.123	0.003	0.724	0.030	0.624	0.007	0.119	0.001	0.674	0.030
32	0.502	0.006	0.140	0.003	0.627	0.051	0.619	0.011	0.140	0.002	0.654	0.051
33	0.513	0.004	0.141	0.002	0.531	0.067	0.632	0.007	0.139	0.003	0.616	0.067
34	0.526	0.006	0.082	0.002	0.676	0.016	0.664	0.014	0.069	0.001	0.772	0.016
35	0.468	0.004	0.114	0.002	0.678	0.014	0.581	0.010	0.104	0.002	0.735	0.014
36	0.498	0.009	0.125	0.002	0.680	0.036	0.625	0.012	0.126	0.003	0.760	0.036
37	0.469	0.009	0.114	0.002	0.810	0.023	0.617	0.012	0.114	0.003	0.817	0.023
38	0.485	0.006	0.124	0.001	0.728	0.037	0.606	0.005	0.135	0.002	0.725	0.037
39	0.484	0.003	0.114	0.004	0.615	0.040	0.584	0.017	0.113	0.002	0.878	0.040
40	0.484	0.004	0.124	0.002	0.834	0.051	0.611	0.015	0.121	0.001	0.823	0.051
41	0.474	0.004	0.124	0.002	0.728	0.045	0.577	0.009	0.131	0.002	0.817	0.045
42	0.493	0.007	0.119	0.002	0.728	0.069	0.618	0.007	0.123	0.001	0.701	0.069
43	0.510	0.004	0.124	0.002	0.650	0.053	0.634	0.009	0.139	0.004	0.740	0.053
44	0.482	0.004	0.127	0.002	0.744	0.046	0.589	0.007	0.132	0.002	0.775	0.046
45	0.512	0.004	0.136	0.002	0.681	0.099	0.634	0.010	0.139	0.001	0.806	0.099
46	0.469	0.002	0.118	0.003	0.863	0.086	0.592	0.009	0.122	0.003	0.850	0.086
47	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
48	0.478	0.008	0.126	0.002	0.829	0.111	0.572	0.012	0.128	0.005	0.889	0.111
49	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
50	0.458	0.005	0.121	0.003	0.680	0.041	0.594	0.013	0.113	0.002	0.836	0.041
51	0.464	0.001	0.120	0.002	0.737	0.044	0.571	0.008	0.124	0.002	0.769	0.044
52	0.455	0.009	0.124	0.003	0.752	0.020	0.565	0.013	0.128	0.002	0.803	0.020
53	0.440	0.007	0.125	0.002	0.902	0.071	0.553	0.004	0.117	0.003	0.874	0.071
54	0.466	0.007	0.127	0.002	0.678	0.038	0.581	0.009	0.130	0.001	0.780	0.038
55	0.483	0.004	0.146	0.002	0.604	0.022	0.586	0.006	0.151	0.002	0.685	0.022
56	0.477	0.003	0.147	0.002	0.559	0.009	0.562	0.007	0.157	0.003	0.678	0.009
57	0.506	0.007	0.198	0.004	0.288	0.047	0.586	0.010	0.214	0.003	0.437	0.047
58	0.553	0.005	0.249	0.005	-0.018	0.037	0.637	0.013	0.270	0.006	0.140	0.037
59	0.682	0.002	0.387	0.015	-0.565	0.047	0.728	0.009	0.407	0.024	-0.283	0.047

[a]Values of T_1 and T_2 are given in seconds, "N.D." indicates a value was not determined. [b] σX indicates the standard deviation of parameter X.

Supplementary Material Table 2: ^{15}N Relaxation Parameter Values for the Folded State of drkN SH3, 30°C[a]

	500 MHz						600 MHz					
Res.	T_1	$^{b}\sigma T_1$	T_2	σT_2	NOE	σNOE	T_1	σT_1	T_2	σT_2	NOE	σNOE
1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
2	0.427	0.007	0.179	0.005	0.405	0.036	0.489	0.005	0.178	0.004	0.579	0.036
3	0.375	0.010	0.175	0.006	0.541	0.054	0.453	0.005	0.171	0.003	0.625	0.054
4	0.388	0.002	0.177	0.006	0.582	0.078	0.439	0.009	0.177	0.006	0.587	0.078
5	0.363	0.003	0.165	0.002	0.716	0.071	0.412	0.006	0.157	0.002	0.735	0.071
6	0.376	0.007	0.161	0.003	0.663	0.044	0.439	0.006	0.158	0.004	0.747	0.044
7	0.399	0.007	0.163	0.001	0.588	0.027	0.462	0.003	0.164	0.002	0.633	0.027
8	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
9	0.368	0.011	0.168	0.004	0.599	0.009	0.430	0.007	0.179	0.003	0.662	0.009
10	0.397	0.005	0.162	0.004	0.669	0.016	0.458	0.004	0.173	0.003	0.677	0.016
11	0.354	0.005	0.165	0.004	0.523	0.002	0.426	0.002	0.162	0.005	0.487	0.002
12	0.423	0.005	0.177	0.006	0.551	0.036	0.488	0.006	0.187	0.004	0.627	0.036
13	0.497	0.007	0.206	0.006	0.503	0.009	0.546	0.004	0.207	0.003	0.688	0.009
14	0.426	0.010	0.142	0.004	0.530	0.032	0.478	0.010	0.171	0.002	0.654	0.032
15	0.410	0.006	0.172	0.004	0.696	0.033	0.465	0.003	0.178	0.002	0.616	0.033
16	0.403	0.004	0.169	0.006	0.694	0.019	0.470	0.004	0.165	0.002	0.651	0.019
17	0.395	0.007	0.176	0.005	0.640	0.019	0.442	0.006	0.174	0.005	0.711	0.019
18	0.424	0.004	0.187	0.007	0.605	0.032	0.489	0.004	0.193	0.003	0.589	0.032
19	0.375	0.004	0.166	0.009	0.614	0.049	0.411	0.004	0.158	0.003	0.736	0.049
20	0.364	0.005	0.161	0.005	0.628	0.065	0.430	0.005	0.181	0.004	0.804	0.065
21	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
22	0.375	0.007	0.164	0.006	0.727	0.030	0.447	0.005	0.155	0.004	0.754	0.030
23	0.378	0.004	0.165	0.004	0.517	0.065	0.418	0.003	0.168	0.002	0.718	0.065
24	0.396	0.004	0.185	0.005	0.600	0.090	0.466	0.005	0.187	0.002	0.750	0.090
25	0.382	0.007	0.159	0.004	0.612	0.055	0.437	0.001	0.158	0.003	0.781	0.055
26	0.397	0.010	0.169	0.004	0.544	0.008	0.450	0.006	0.175	0.003	0.636	0.008
27	0.398	0.005	0.170	0.003	0.666	0.051	0.456	0.010	0.168	0.003	0.854	0.051
28	0.383	0.004	0.158	0.004	0.873	0.014	0.446	0.011	0.145	0.003	0.689	0.014
29	0.383	0.006	0.153	0.003	0.714	0.028	0.468	0.006	0.169	0.008	0.729	0.028
30	0.395	0.004	0.147	0.005	0.577	0.038	0.451	0.006	0.165	0.004	0.754	0.038
31	0.446	0.004	0.174	0.004	0.472	0.030	0.504	0.002	0.186	0.003	0.658	0.030
32	0.449	0.006	0.186	0.005	0.564	0.051	0.498	0.003	0.203	0.002	0.604	0.051
33	0.448	0.006	0.181	0.003	0.441	0.067	0.511	0.003	0.194	0.003	0.511	0.067
34	0.447	0.007	0.135	0.002	0.487	0.016	0.502	0.006	0.141	0.003	0.644	0.016
35	0.398	0.009	0.132	0.003	0.479	0.014	0.452	0.011	0.149	0.004	0.755	0.014
36	0.413	0.007	0.162	0.004	0.710	0.036	0.462	0.003	0.178	0.003	0.662	0.036
37	0.399	0.008	0.171	0.008	0.663	0.023	0.446	0.007	0.167	0.005	0.675	0.023
38	0.394	0.009	0.175	0.006	0.631	0.037	0.458	0.006	0.177	0.004	0.744	0.037
39	0.389	0.010	0.143	0.006	0.710	0.040	0.443	0.006	0.141	0.003	0.747	0.040
40	0.388	0.002	0.169	0.004	0.671	0.051	0.457	0.004	0.172	0.003	0.691	0.051
41	0.377	0.006	0.158	0.005	0.670	0.045	0.443	0.004	0.167	0.003	0.700	0.045
42	0.401	0.005	0.128	0.004	0.653	0.069	0.459	0.006	0.136	0.001	0.668	0.069
43	0.415	0.006	0.164	0.004	0.595	0.053	0.485	0.004	0.178	0.003	0.723	0.053
44	0.405	0.005	0.183	0.005	0.595	0.046	0.458	0.003	0.179	0.003	0.637	0.046
45	0.415	0.004	0.194	0.009	0.657	0.099	0.476	0.004	0.192	0.005	0.766	0.099
46	0.376	0.004	0.160	0.004	0.705	0.086	0.452	0.003	0.147	0.001	0.740	0.086
47	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
48	0.382	0.008	0.152	0.005	0.668	0.111	0.439	0.006	0.153	0.002	0.669	0.111
49	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
50	0.393	0.002	0.158	0.006	0.597	0.041	0.440	0.007	0.158	0.003	0.733	0.041
51	0.381	0.003	0.148	0.003	0.749	0.044	0.433	0.004	0.165	0.003	0.694	0.044
52	0.377	0.005	0.162	0.007	0.677	0.020	0.437	0.006	0.169	0.003	0.689	0.020
53	0.377	0.005	0.155	0.005	0.644	0.071	0.425	0.004	0.150	0.002	0.712	0.071
54	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
55	0.405	0.005	0.171	0.003	0.540	0.022	0.454	0.006	0.176	0.003	0.623	0.022
56	0.432	0.006	0.189	0.007	0.473	0.009	0.457	0.005	0.197	0.005	0.617	0.009
57	0.538	0.013	0.185	0.005	0.078	0.047	0.556	0.021	0.241	0.008	0.288	0.047
58	0.649	0.027	0.209	0.012	-0.250	0.037	0.659	0.024	0.266	0.009	-0.155	0.037
59	0.860	0.013	0.353	0.012	-0.324	0.047	0.823	0.009	0.492	0.034	-0.212	0.047

[a]Values of T_1 and T_2 are given in seconds, "N.D." indicates a value was not determined. [b] σX indicates the standard deviation of parameter X.

Supplementary Material Table 3: ^{15}N Relaxation Parameter Values for the Unfolded State of drkN SH3, 14°C[a]

	500 MHz						600 MHz					
Res.	T_1	[b]σT_1	T_2	σT_2	NOE	σNOE	T_1	σT_1	T_2	σT_2	NOE	σNOE
1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
2	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
3	0.807	0.002	0.559	0.008	-0.915	0.027	0.885	0.008	0.609	0.014	-0.510	0.011
4	0.736	0.005	0.489	0.017	-0.792	0.021	0.816	0.009	0.522	0.008	-0.248	0.011
5	0.665	0.002	0.423	0.010	-0.463	0.014	0.728	0.009	0.360	0.008	-0.405	0.008
6	0.658	0.004	0.448	0.010	-0.494	0.033	0.725	0.007	0.451	0.010	-0.209	0.011
7	0.584	0.003	0.374	0.008	-0.155	0.006	0.650	0.007	0.396	0.004	0.042	0.016
8	0.574	0.001	0.349	0.004	-0.177	0.008	0.638	0.005	0.359	0.004	-0.045	0.004
9	0.585	0.002	0.334	0.005	-0.135	0.008	0.656	0.005	0.352	0.003	-0.023	0.015
10	0.581	0.002	0.335	0.004	-0.191	0.019	0.644	0.005	0.344	0.003	-0.045	0.017
11	0.594	0.002	0.330	0.005	-0.130	0.010	0.660	0.005	0.341	0.005	-0.045	0.021
12	0.618	0.004	0.346	0.008	-0.066	0.015	0.712	0.008	0.355	0.004	0.067	0.008
13	0.596	0.002	0.322	0.003	-0.196	0.015	0.680	0.006	0.328	0.007	-0.045	0.014
14	0.587	0.002	0.308	0.005	-0.119	0.007	0.669	0.007	0.310	0.003	-0.030	0.010
15	0.564	0.002	0.278	0.004	-0.104	0.008	0.639	0.005	0.288	0.003	0.186	0.019
16	0.553	0.002	0.249	0.002	-0.034	0.016	0.626	0.005	0.258	0.005	0.108	0.016
17	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
18	0.565	0.002	0.245	0.002	0.089	0.018	0.652	0.006	0.246	0.005	0.224	0.013
19	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
20	0.546	0.002	0.239	0.003	0.041	0.012	0.618	0.007	0.240	0.003	0.279	0.008
21	0.548	0.006	0.200	0.001	0.059	0.021	0.629	0.009	0.182	0.004	0.186	0.008
22	0.569	0.004	0.204	0.003	0.124	0.027	0.651	0.009	0.204	0.002	0.245	0.029
23	0.556	0.004	0.202	0.002	0.034	0.012	0.639	0.006	0.196	0.001	0.175	0.035
24	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
25	0.574	0.008	0.158	0.005	-0.038	0.032	0.632	0.007	0.142	0.002	0.191	0.015
26	0.559	0.002	0.186	0.002	0.002	0.013	0.648	0.006	0.167	0.002	0.229	0.023
27	0.571	0.003	0.189	0.006	0.144	0.033	0.654	0.005	0.177	0.003	0.211	0.023
28	0.549	0.003	0.156	0.002	0.032	0.018	0.629	0.008	0.143	0.002	0.178	0.007
29	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
30	0.570	0.004	0.208	0.002	0.060	0.013	0.659	0.005	0.207	0.002	0.104	0.006
31	0.539	0.003	0.211	0.004	0.132	0.012	0.629	0.004	0.216	0.005	0.199	0.024
32	0.547	0.003	0.233	0.003	0.051	0.024	0.635	0.009	0.222	0.003	0.178	0.031
33	0.533	0.003	0.215	0.002	0.095	0.009	0.628	0.006	0.223	0.002	0.211	0.039
34	0.539	0.004	0.218	0.003	0.111	0.028	0.626	0.006	0.215	0.004	0.220	0.013
35	0.476	0.013	0.191	0.005	0.291	0.024	0.584	0.006	0.215	0.004	0.388	0.027
36	0.518	0.001	0.206	0.004	0.202	0.040	0.599	0.006	0.203	0.002	0.341	0.014
37	0.500	0.005	0.189	0.003	0.216	0.019	0.571	0.005	0.179	0.003	0.405	0.036
38	0.503	0.006	0.201	0.004	0.225	0.026	0.589	0.004	0.185	0.005	0.392	0.010
39	0.528	0.003	0.216	0.005	0.136	0.026	0.597	0.006	0.204	0.003	0.387	0.014
40	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
41	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
42	0.547	0.006	0.255	0.004	0.012	0.048	0.640	0.014	0.244	0.003	0.160	0.022
43	0.578	0.002	0.303	0.006	-0.079	0.035	0.655	0.004	0.251	0.008	0.118	0.014
44	0.561	0.005	0.269	0.008	-0.023	0.025	0.619	0.006	0.275	0.005	0.270	0.031
45	0.565	0.006	0.275	0.005	0.057	0.003	0.643	0.006	0.280	0.004	0.238	0.010
46	0.590	0.005	0.315	0.007	0.017	0.029	0.657	0.007	0.296	0.005	0.074	0.015
47	0.568	0.003	0.287	0.006	0.112	0.019	0.644	0.006	0.298	0.005	0.126	0.012
48	0.583	0.003	0.288	0.007	-0.116	0.013	0.651	0.007	0.275	0.003	0.180	0.005
49	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
50	0.576	0.002	0.274	0.003	0.102	0.020	0.656	0.005	0.280	0.003	0.207	0.009
51	0.565	0.010	0.277	0.009	0.116	0.025	0.625	0.006	0.252	0.003	0.191	0.017
52	0.546	0.002	0.270	0.006	0.173	0.026	0.623	0.005	0.276	0.004	0.166	0.012
53	0.540	0.009	0.310	0.015	-0.079	0.028	0.596	0.006	0.269	0.008	0.268	0.063
54	0.576	0.006	0.314	0.008	-0.154	0.021	0.640	0.005	0.301	0.003	-0.062	0.015
55	0.589	0.007	0.310	0.008	-0.059	0.077	0.656	0.007	0.371	0.011	-0.006	0.037
56	0.609	0.005	0.376	0.008	-0.176	0.027	0.682	0.005	0.390	0.011	-0.142	0.005
57	0.664	0.008	0.418	0.014	-0.555	0.043	0.723	0.009	0.455	0.016	-0.018	0.025
58	0.670	0.007	0.487	0.014	-0.775	0.065	0.751	0.008	0.449	0.017	-0.309	0.045
59	0.743	0.005	0.574	0.015	-0.721	0.026	0.834	0.011	0.599	0.027	-0.690	0.022

[a]Values of T_1 and T_2 are given in seconds, "N.D." indicates a value was not determined. [b] σX indicates the standard deviation of parameter X.

Supplementary Material Table 4: ^{15}N Relaxation Parameter Values for the Unfolded State of drkN SH3, 30°C[a]

	500 MHz						600 MHz					
Res.	T_1	[b]σT_1	T_2	σT_2	NOE	σNOE	T_1	σT_1	T_2	σT_2	NOE	σNOE
1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
2	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
3	0.915	0.007	0.644	0.012	-1.390	0.030	0.993	0.012	0.682	0.029	-1.121	0.023
4	0.903	0.004	0.637	0.013	-1.148	0.034	0.966	0.009	0.689	0.017	-0.759	0.014
5	0.818	0.005	0.511	0.016	-0.843	0.002	0.836	0.008	0.416	0.011	-0.788	0.009
6	0.747	0.003	0.521	0.015	-0.994	0.025	0.791	0.007	0.531	0.013	-0.623	0.021
7	0.558	0.022	0.400	0.008	-0.710	0.012	0.615	0.017	0.422	0.004	-0.417	0.030
8	0.572	0.020	0.399	0.005	-0.523	0.016	0.628	0.019	0.403	0.014	-0.376	0.019
9	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
10	0.609	0.009	0.424	0.005	-0.426	0.016	0.649	0.007	0.430	0.011	-0.357	0.009
11	0.627	0.008	0.411	0.005	-0.368	0.018	0.676	0.007	0.437	0.008	-0.271	0.029
12	0.677	0.007	0.454	0.008	-0.635	0.021	0.737	0.006	0.464	0.010	-0.145	0.019
13	0.644	0.005	0.408	0.008	-0.479	0.010	0.696	0.006	0.417	0.009	-0.360	0.016
14	0.657	0.006	0.396	0.009	-0.428	0.043	0.700	0.004	0.414	0.011	-0.314	0.017
15	0.613	0.006	0.364	0.007	-0.469	0.024	0.658	0.003	0.365	0.006	-0.226	0.027
16	0.599	0.005	0.336	0.007	-0.164	0.022	0.641	0.004	0.326	0.004	-0.126	0.006
17	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
18	0.588	0.002	0.318	0.004	-0.349	0.034	0.636	0.005	0.306	0.003	0.010	0.017
19	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
20	0.590	0.003	0.319	0.005	-0.456	0.012	0.639	0.004	0.316	0.004	-0.039	0.012
21	0.565	0.003	0.241	0.006	-0.175	0.019	0.571	0.008	0.216	0.004	0.007	0.032
22	0.564	0.004	0.253	0.003	-0.162	0.020	0.618	0.005	0.246	0.004	0.077	0.008
23	0.560	0.005	0.244	0.002	-0.085	0.024	0.613	0.004	0.233	0.003	-0.038	0.009
24	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
25	0.586	0.004	0.202	0.004	-0.252	0.019	0.639	0.006	0.189	0.003	-0.077	0.039
26	0.588	0.002	0.223	0.003	-0.281	0.027	0.653	0.008	0.208	0.002	-0.002	0.022
27	0.603	0.005	0.226	0.003	-0.102	0.040	0.655	0.003	0.221	0.003	0.054	0.024
28	0.577	0.003	0.216	0.003	-0.190	0.015	0.633	0.004	0.202	0.004	-0.044	0.046
29	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
30	0.574	0.007	0.253	0.003	-0.109	0.013	0.623	0.005	0.255	0.004	-0.041	0.033
31	0.567	0.004	0.277	0.004	-0.058	0.010	0.624	0.005	0.270	0.004	0.117	0.019
32	0.588	0.005	0.303	0.005	-0.234	0.017	0.646	0.004	0.300	0.006	-0.092	0.013
33	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
34	0.544	0.004	0.288	0.003	0.038	0.019	0.592	0.006	0.290	0.005	0.065	0.031
35	0.490	0.008	0.277	0.006	0.000	0.035	0.549	0.008	0.276	0.007	0.232	0.039
36	0.535	0.005	0.273	0.002	0.070	0.002	0.582	0.003	0.262	0.003	0.081	0.010
37	0.512	0.004	0.264	0.005	-0.082	0.058	0.568	0.005	0.260	0.003	0.226	0.005
38	0.529	0.002	0.271	0.006	-0.017	0.056	0.569	0.008	0.265	0.004	0.085	0.014
39	0.546	0.004	0.289	0.006	-0.221	0.037	0.597	0.010	0.280	0.009	0.136	0.063
40	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
41	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
42	0.623	0.009	0.341	0.009	-0.141	0.028	0.630	0.007	0.320	0.012	-0.142	0.056
43	0.641	0.003	0.384	0.011	-0.232	0.040	0.711	0.017	0.317	0.006	-0.195	0.028
44	0.620	0.007	0.361	0.013	-0.465	0.044	0.645	0.008	0.356	0.009	-0.149	0.064
45	0.604	0.004	0.365	0.009	-0.451	0.014	0.652	0.008	0.387	0.010	-0.083	0.021
46	0.641	0.003	0.410	0.006	-0.273	0.009	0.684	0.007	0.317	0.009	-0.113	0.030
47	0.641	0.005	0.391	0.007	-0.289	0.025	0.684	0.006	0.388	0.010	-0.031	0.004
48	0.659	0.005	0.374	0.009	-0.485	0.029	0.712	0.005	0.375	0.006	-0.174	0.028
49	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
50	0.593	0.007	0.346	0.004	-0.162	0.013	0.639	0.008	0.353	0.006	0.025	0.015
51	0.536	0.009	0.320	0.004	-0.116	0.009	0.573	0.010	0.314	0.005	0.067	0.018
52	0.595	0.004	0.340	0.006	-0.172	0.025	0.629	0.006	0.340	0.007	-0.002	0.033
53	0.606	0.009	0.395	0.018	-0.362	0.037	0.635	0.008	0.364	0.025	-0.232	0.042
54	0.669	0.006	0.405	0.010	-0.425	0.024	0.727	0.009	0.402	0.011	-0.348	0.013
55	0.650	0.007	0.431	0.019	-0.490	0.012	0.701	0.008	0.429	0.018	-0.268	0.019
56	0.693	0.009	0.459	0.012	-0.483	0.050	0.752	0.006	0.475	0.016	-0.367	0.048
57	0.885	0.015	0.619	0.029	-1.246	0.043	0.878	0.011	0.547	0.026	-0.707	0.030
58	0.634	0.025	0.421	0.016	-1.269	0.118	0.691	0.032	0.513	0.039	-0.955	0.055
59	0.874	0.014	0.562	0.029	-1.322	0.065	0.958	0.015	0.537	0.024	-0.874	0.028

[a]Values of T_1 and T_2 are given in seconds, "N.D." indicates a value was not determined. [b] σX indicates the standard deviation of parameter X.

Supplementary Material 5: Spectral Density Values Determined for the Folded State of drkN SH3, 14°C[a]

Residue	J(0)	[b]σJ(0)	J(50)	σJ(50)	J(60)	σJ(60)	J(430)	σJ(430)	J(516)	σJ(516)
1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
2	1.8626	0.0375	0.3905	0.0040	0.2913	0.0030	0.0119	0.0011	0.0086	0.0009
3	2.0067	0.0344	0.4346	0.0097	0.3250	0.0054	0.0095	0.0018	0.0046	0.0014
4	2.0081	0.0387	0.4378	0.0068	0.3226	0.0052	0.0093	0.0027	0.0067	0.0021
5	2.0352	0.0289	0.4629	0.0051	0.3538	0.0065	0.0077	0.0024	0.0044	0.0021
6	2.2354	0.0453	0.4629	0.0118	0.3320	0.0063	0.0054	0.0016	0.0036	0.0012
7	2.0311	0.0404	0.4431	0.0047	0.3207	0.0038	0.0085	0.0009	0.0049	0.0007
8	1.9496	0.0224	0.4215	0.0060	0.3049	0.0043	0.0077	0.0018	0.0047	0.0014
9	2.0681	0.0301	0.4519	0.0036	0.3341	0.0053	0.0085	0.0003	0.0049	0.0002
10	1.9368	0.0203	0.4260	0.0050	0.3079	0.0044	0.0095	0.0005	0.0053	0.0004
11	2.0807	0.0282	0.4791	0.0040	0.3350	0.0051	0.0068	0.0001	0.0046	0.0001
12	1.9738	0.0281	0.3974	0.0049	0.2986	0.0065	0.0137	0.0011	0.0069	0.0009
13	1.7301	0.0275	0.3575	0.0020	0.2677	0.0034	0.0117	0.0003	0.0075	0.0002
14	1.9813	0.0173	0.3905	0.0053	0.2907	0.0043	0.0092	0.0010	0.0070	0.0008
15	1.9271	0.0215	0.4247	0.0038	0.3191	0.0064	0.0108	0.0011	0.0072	0.0009
16	2.3863	0.0320	0.4170	0.0036	0.3079	0.0056	0.0092	0.0006	0.0055	0.0005
17	2.0274	0.0269	0.4391	0.0058	0.3295	0.0091	0.0050	0.0006	0.0052	0.0005
18	1.8331	0.0254	0.3863	0.0031	0.3054	0.0036	0.0125	0.0010	0.0056	0.0008
19	2.0700	0.0276	0.4595	0.0051	0.3356	0.0057	0.0085	0.0017	0.0060	0.0014
20	2.0113	0.0353	0.4499	0.0066	0.3383	0.0075	0.0102	0.0023	0.0028	0.0018
21	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
22	2.4155	0.0383	0.4417	0.0078	0.3294	0.0066	0.0110	0.0010	0.0048	0.0008
23	2.2505	0.0217	0.4585	0.0097	0.3436	0.0060	0.0089	0.0023	0.0044	0.0018
24	1.9628	0.0211	0.4189	0.0090	0.3283	0.0060	0.0092	0.0030	0.0045	0.0024
25	2.0223	0.0437	0.4260	0.0062	0.3225	0.0069	0.0100	0.0018	0.0070	0.0015
26	2.0830	0.0220	0.4382	0.0060	0.3173	0.0048	0.0059	0.0003	0.0040	0.0002
27	2.0894	0.0276	0.4196	0.0054	0.3084	0.0043	0.0064	0.0016	0.0042	0.0012
28	2.1401	0.0630	0.4286	0.0159	0.3274	0.0077	0.0064	0.0005	0.0055	0.0004
29	2.0844	0.0307	0.4062	0.0039	0.3103	0.0043	0.0101	0.0009	0.0040	0.0007
30	2.0271	0.0380	0.4214	0.0063	0.3063	0.0077	0.0096	0.0012	0.0068	0.0010
31	2.2304	0.0286	0.4157	0.0050	0.2986	0.0037	0.0088	0.0009	0.0081	0.0007
32	1.8870	0.0327	0.3983	0.0057	0.3006	0.0057	0.0116	0.0015	0.0087	0.0013
33	1.8905	0.0243	0.3853	0.0048	0.2928	0.0041	0.0143	0.0021	0.0095	0.0016
34	3.7693	0.0464	0.3825	0.0039	0.2846	0.0059	0.0096	0.0005	0.0054	0.0004
35	2.4812	0.0311	0.4309	0.0037	0.3234	0.0055	0.0107	0.0005	0.0071	0.0004
36	2.1305	0.0327	0.4046	0.0074	0.3017	0.0061	0.0100	0.0011	0.0060	0.0009
37	2.3666	0.0460	0.4373	0.0079	0.3081	0.0061	0.0063	0.0008	0.0046	0.0006
38	2.0562	0.0238	0.4180	0.0058	0.3098	0.0029	0.0088	0.0012	0.0071	0.0010
39	2.3761	0.0520	0.4132	0.0030	0.3282	0.0099	0.0124	0.0013	0.0032	0.0011
40	2.1838	0.0254	0.4244	0.0046	0.3110	0.0080	0.0054	0.0017	0.0045	0.0013
41	2.0832	0.0256	0.4279	0.0045	0.3291	0.0057	0.0090	0.0015	0.0049	0.0012
42	2.2246	0.0241	0.4113	0.0072	0.3030	0.0044	0.0086	0.0021	0.0076	0.0017
43	2.0402	0.0392	0.3935	0.0042	0.2966	0.0046	0.0107	0.0016	0.0064	0.0014
44	2.0511	0.0234	0.4219	0.0041	0.3206	0.0045	0.0083	0.0015	0.0060	0.0012
45	1.9293	0.0181	0.3940	0.0057	0.2992	0.0060	0.0097	0.0030	0.0048	0.0024
46	2.2363	0.0383	0.4400	0.0052	0.3225	0.0061	0.0046	0.0029	0.0040	0.0024
47	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
48	2.0997	0.0496	0.4295	0.0096	0.3352	0.0085	0.0056	0.0037	0.0030	0.0031
49	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
50	2.2855	0.0353	0.4404	0.0052	0.3206	0.0069	0.0109	0.0014	0.0043	0.0011
51	2.1795	0.0274	0.4377	0.0028	0.3307	0.0048	0.0088	0.0015	0.0063	0.0012
52	2.1024	0.0343	0.4475	0.0091	0.3357	0.0075	0.0085	0.0007	0.0054	0.0006
53	2.2018	0.0390	0.4711	0.0086	0.3460	0.0040	0.0035	0.0025	0.0035	0.0020
54	2.0552	0.0231	0.4319	0.0071	0.3253	0.0059	0.0108	0.0013	0.0059	0.0011
55	1.7527	0.0210	0.4133	0.0039	0.3185	0.0034	0.0128	0.0007	0.0084	0.0006
56	1.6947	0.0223	0.4154	0.0024	0.3318	0.0044	0.0144	0.0003	0.0089	0.0003
57	1.1785	0.0191	0.3775	0.0059	0.3083	0.0056	0.0219	0.0014	0.0150	0.0013
58	0.8937	0.0183	0.3311	0.0036	0.2720	0.0055	0.0288	0.0011	0.0211	0.0010
59	0.5207	0.0278	0.2468	0.0020	0.2237	0.0034	0.0358	0.0011	0.0275	0.0011

[a]Values of the spectral density function are given in ns/rad, "N.D." indicates a value was not determined. [b] σX indicates the standard deviation of parameter X.

Supplementary Material 6: Spectral Density Values Determined for the Folded State of drkN SH3, 30°C[a]

Residue	J(0)	[b]σJ(0)	J(50)	σJ(50)	J(60)	σJ(60)	J(430)	σJ(430)	J(516)	σJ(516)
1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
2	1.3459	0.0287	0.4548	0.0083	0.3769	0.0046	0.0217	0.0014	0.0134	0.0012
3	1.3691	0.0356	0.5274	0.0151	0.4087	0.0057	0.0191	0.0023	0.0129	0.0019
4	1.3296	0.0387	0.5124	0.0061	0.4204	0.0095	0.0168	0.0032	0.0147	0.0028
5	1.4803	0.0195	0.5577	0.0071	0.4559	0.0076	0.0122	0.0029	0.0100	0.0028
6	1.5149	0.0306	0.5341	0.0107	0.4288	0.0064	0.0140	0.0019	0.0090	0.0016
7	1.4905	0.0124	0.4993	0.0083	0.4012	0.0027	0.0161	0.0010	0.0124	0.0009
8	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
9	1.3576	0.0256	0.5421	0.0159	0.4327	0.0067	0.0170	0.0006	0.0123	0.0004
10	1.4500	0.0281	0.5073	0.0058	0.4077	0.0037	0.0130	0.0006	0.0110	0.0005
11	1.4435	0.0336	0.5572	0.0076	0.4266	0.0023	0.0210	0.0003	0.0188	0.0001
12	1.3225	0.0343	0.4687	0.0062	0.3796	0.0050	0.0166	0.0014	0.0119	0.0011
13	1.1670	0.0232	0.3959	0.0052	0.3422	0.0028	0.0156	0.0003	0.0089	0.0003
14	1.6109	0.0307	0.4638	0.0113	0.3888	0.0085	0.0172	0.0013	0.0113	0.0011
15	1.3801	0.0260	0.4920	0.0079	0.3983	0.0033	0.0116	0.0013	0.0129	0.0012
16	1.4527	0.0361	0.5011	0.0052	0.3958	0.0039	0.0119	0.0007	0.0116	0.0007
17	1.3598	0.0364	0.5079	0.0093	0.4242	0.0055	0.0142	0.0008	0.0102	0.0007
18	1.2527	0.0374	0.4708	0.0053	0.3772	0.0036	0.0145	0.0012	0.0131	0.0010
19	1.4733	0.0534	0.5320	0.0064	0.4578	0.0054	0.0161	0.0021	0.0100	0.0019
20	1.3925	0.0326	0.5495	0.0089	0.4407	0.0061	0.0159	0.0027	0.0071	0.0023
21	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
22	1.5159	0.0409	0.5407	0.0110	0.4219	0.0047	0.0114	0.0013	0.0086	0.0010
23	1.4260	0.0218	0.5218	0.0073	0.4491	0.0048	0.0199	0.0027	0.0105	0.0024
24	1.2650	0.0273	0.5033	0.0075	0.4040	0.0071	0.0157	0.0036	0.0084	0.0030
25	1.5287	0.0333	0.5227	0.0096	0.4327	0.0033	0.0158	0.0023	0.0078	0.0019
26	1.3935	0.0268	0.4979	0.0121	0.4125	0.0057	0.0179	0.0005	0.0126	0.0003
27	1.4255	0.0222	0.5048	0.0069	0.4183	0.0092	0.0131	0.0020	0.0050	0.0018
28	1.6301	0.0306	0.5390	0.0062	0.4192	0.0101	0.0052	0.0005	0.0109	0.0005
29	1.5199	0.0465	0.5286	0.0082	0.4013	0.0051	0.0116	0.0011	0.0090	0.0010
30	1.5787	0.0410	0.5028	0.0053	0.4177	0.0063	0.0167	0.0015	0.0085	0.0013
31	1.3538	0.0249	0.4398	0.0049	0.3690	0.0022	0.0185	0.0011	0.0106	0.0010
32	1.2286	0.0246	0.4417	0.0068	0.3709	0.0035	0.0151	0.0017	0.0124	0.0016
33	1.2862	0.0197	0.4360	0.0072	0.3572	0.0041	0.0195	0.0023	0.0149	0.0021
34	1.8678	0.0272	0.4391	0.0071	0.3703	0.0043	0.0179	0.0006	0.0111	0.0005
35	1.7956	0.0372	0.4925	0.0110	0.4172	0.0097	0.0204	0.0007	0.0085	0.0005
36	1.4351	0.0289	0.4903	0.0085	0.4029	0.0034	0.0110	0.0013	0.0114	0.0012
37	1.4220	0.0509	0.5034	0.0100	0.4185	0.0066	0.0132	0.0010	0.0114	0.0008
38	1.3574	0.0362	0.5081	0.0115	0.4113	0.0063	0.0146	0.0015	0.0087	0.0013
39	1.7606	0.0494	0.5198	0.0141	0.4247	0.0057	0.0116	0.0017	0.0089	0.0014
40	1.4052	0.0276	0.5193	0.0043	0.4086	0.0044	0.0132	0.0020	0.0105	0.0017
41	1.4871	0.0348	0.5337	0.0096	0.4227	0.0044	0.0136	0.0019	0.0106	0.0016
42	1.9361	0.0396	0.5006	0.0072	0.4064	0.0062	0.0135	0.0026	0.0113	0.0024
43	1.4325	0.0311	0.4802	0.0082	0.3867	0.0039	0.0152	0.0020	0.0089	0.0017
44	1.3061	0.0267	0.4919	0.0070	0.4055	0.0036	0.0156	0.0018	0.0124	0.0016
45	1.2203	0.0423	0.4836	0.0080	0.3964	0.0063	0.0129	0.0036	0.0077	0.0032
46	1.5917	0.0289	0.5371	0.0080	0.4163	0.0052	0.0122	0.0035	0.0090	0.0030
47	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
48	1.6070	0.0362	0.5267	0.0135	0.4243	0.0086	0.0136	0.0045	0.0118	0.0041
49	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
50	1.5425	0.0415	0.5066	0.0039	0.4274	0.0075	0.0160	0.0017	0.0095	0.0015
51	1.5665	0.0238	0.5337	0.0058	0.4315	0.0047	0.0103	0.0018	0.0110	0.0016
52	1.4498	0.0440	0.5338	0.0068	0.4274	0.0055	0.0134	0.0008	0.0111	0.0007
53	1.5973	0.0378	0.5323	0.0093	0.4409	0.0064	0.0147	0.0030	0.0106	0.0028
54	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
55	1.3830	0.0223	0.4878	0.0059	0.4079	0.0057	0.0177	0.0009	0.0130	0.0008
56	1.2160	0.0384	0.4533	0.0072	0.4052	0.0043	0.0190	0.0004	0.0131	0.0003
57	1.1592	0.0327	0.3445	0.0088	0.3184	0.0123	0.0267	0.0015	0.0200	0.0015
58	1.0451	0.0473	0.2725	0.0114	0.2520	0.0096	0.0301	0.0015	0.0273	0.0014
59	0.5414	0.0252	0.2033	0.0034	0.2000	0.0025	0.0240	0.0009	0.0230	0.0009

[a]Values of the spectral density function are given in ns/rad, "N.D." indicates a value was not determined. [b] σX indicates the standard deviation of parameter X.

Supplementary Material 7: Spectral Density Values Determined for the Unfolded State of drkN SH3, 14°C[a]

Residue	J(0)	[b]σJ(0)	J(50)	σJ(50)	J(60)	σJ(60)	J(430)	σJ(430)	J(516)	σJ(516)
1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
2	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
3	0.3129	0.0070	0.1970	0.0010	0.1778	0.0016	0.0370	0.0005	0.0266	0.0003
4	0.3769	0.0128	0.2205	0.0017	0.2007	0.0023	0.0380	0.0005	0.0239	0.0003
5	0.5301	0.0132	0.2571	0.0009	0.2197	0.0026	0.0343	0.0003	0.0301	0.0004
6	0.4272	0.0107	0.2589	0.0020	0.2273	0.0021	0.0354	0.0008	0.0260	0.0003
7	0.5184	0.0098	0.3071	0.0019	0.2628	0.0030	0.0309	0.0002	0.0230	0.0005
8	0.5811	0.0071	0.3116	0.0008	0.2645	0.0022	0.0320	0.0002	0.0256	0.0002
9	0.6152	0.0078	0.3076	0.0012	0.2582	0.0019	0.0303	0.0002	0.0243	0.0004
10	0.6196	0.0075	0.3068	0.0013	0.2621	0.0022	0.0320	0.0005	0.0253	0.0004
11	0.6382	0.0093	0.3030	0.0011	0.2555	0.0022	0.0297	0.0003	0.0247	0.0005
12	0.6141	0.0114	0.2940	0.0019	0.2410	0.0027	0.0269	0.0004	0.0205	0.0003
13	0.6707	0.0108	0.2991	0.0014	0.2483	0.0023	0.0313	0.0004	0.0240	0.0004
14	0.7142	0.0097	0.3072	0.0012	0.2529	0.0027	0.0298	0.0002	0.0240	0.0004
15	0.7966	0.0098	0.3202	0.0012	0.2732	0.0023	0.0305	0.0003	0.0199	0.0005
16	0.9158	0.0114	0.3302	0.0017	0.2756	0.0025	0.0292	0.0005	0.0222	0.0004
17	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
18	0.9662	0.0127	0.3289	0.0014	0.2692	0.0025	0.0252	0.0005	0.0186	0.0003
19	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
20	0.9839	0.0119	0.3378	0.0012	0.2859	0.0034	0.0274	0.0004	0.0182	0.0003
21	1.3102	0.0177	0.3375	0.0037	0.2775	0.0041	0.0268	0.0007	0.0202	0.0004
22	1.2190	0.0131	0.3281	0.0026	0.2702	0.0039	0.0240	0.0008	0.0181	0.0007
23	1.2466	0.0098	0.3315	0.0026	0.2727	0.0027	0.0271	0.0004	0.0201	0.0009
24	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
25	1.7527	0.0339	0.3178	0.0046	0.2762	0.0028	0.0282	0.0009	0.0200	0.0004
26	1.4469	0.0116	0.3280	0.0016	0.2708	0.0028	0.0279	0.0004	0.0186	0.0006
27	1.3854	0.0288	0.3280	0.0023	0.2679	0.0021	0.0234	0.0009	0.0188	0.0006
28	1.7493	0.0210	0.3358	0.0023	0.2771	0.0033	0.0275	0.0006	0.0204	0.0003
29	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
30	1.1895	0.0107	0.3246	0.0025	0.2617	0.0020	0.0257	0.0004	0.0212	0.0002
31	1.1390	0.0224	0.3471	0.0019	0.2779	0.0018	0.0251	0.0004	0.0199	0.0006
32	1.0525	0.0131	0.3380	0.0021	0.2744	0.0042	0.0271	0.0007	0.0202	0.0009
33	1.1018	0.0101	0.3488	0.0020	0.2787	0.0031	0.0265	0.0003	0.0196	0.0010
34	1.1198	0.0152	0.3455	0.0028	0.2802	0.0026	0.0257	0.0008	0.0195	0.0004
35	1.1937	0.0273	0.4020	0.0108	0.3071	0.0032	0.0233	0.0010	0.0164	0.0007
36	1.1927	0.0162	0.3647	0.0023	0.2976	0.0031	0.0241	0.0012	0.0172	0.0004
37	1.3429	0.0175	0.3780	0.0038	0.3151	0.0033	0.0244	0.0007	0.0163	0.0010
38	1.2713	0.0263	0.3764	0.0044	0.3046	0.0019	0.0240	0.0008	0.0161	0.0003
39	1.1526	0.0195	0.3543	0.0024	0.3006	0.0031	0.0256	0.0008	0.0160	0.0004
40	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
41	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
42	0.9375	0.0129	0.3358	0.0040	0.2716	0.0059	0.0282	0.0015	0.0205	0.0007
43	0.8318	0.0205	0.3136	0.0020	0.2639	0.0019	0.0291	0.0010	0.0210	0.0004
44	0.8371	0.0190	0.3260	0.0030	0.2852	0.0029	0.0285	0.0008	0.0184	0.0008
45	0.8196	0.0131	0.3273	0.0034	0.2734	0.0026	0.0260	0.0003	0.0185	0.0003
46	0.7267	0.0136	0.3114	0.0031	0.2612	0.0032	0.0260	0.0008	0.0220	0.0005
47	0.7660	0.0149	0.3282	0.0021	0.2688	0.0025	0.0244	0.0005	0.0212	0.0003
48	0.8084	0.0151	0.3093	0.0019	0.2679	0.0030	0.0299	0.0004	0.0197	0.0002
49	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
50	0.8288	0.0079	0.3233	0.0017	0.2668	0.0019	0.0243	0.0006	0.0189	0.0003
51	0.8722	0.0194	0.3299	0.0061	0.2791	0.0026	0.0244	0.0008	0.0202	0.0005
52	0.8290	0.0140	0.3445	0.0017	0.2791	0.0022	0.0236	0.0008	0.0209	0.0003
53	0.7598	0.0301	0.3358	0.0057	0.2963	0.0037	0.0312	0.0010	0.0192	0.0016
54	0.7105	0.0138	0.3111	0.0030	0.2631	0.0023	0.0312	0.0007	0.0259	0.0004
55	0.6321	0.0175	0.3087	0.0050	0.2588	0.0031	0.0281	0.0021	0.0239	0.0009
56	0.5310	0.0136	0.2934	0.0025	0.2440	0.0019	0.0301	0.0008	0.0261	0.0002
57	0.4519	0.0173	0.2541	0.0034	0.2344	0.0030	0.0365	0.0011	0.0220	0.0006
58	0.4024	0.0157	0.2431	0.0036	0.2161	0.0028	0.0414	0.0016	0.0272	0.0010
59	0.2943	0.0134	0.2210	0.0018	0.1834	0.0024	0.0361	0.0006	0.0316	0.0006

[a]Values of the spectral density function are given in ns/rad, "N.D." indicates a value was not determined. [b] σX indicates the standard deviation of parameter X.

Supplementary Material 8: Spectral Density Values Determined for the Unfolded State of drkN SH3, 30°C[a]

Residue	J(0)	[b]σJ(0)	J(50)	σJ(50)	J(60)	σJ(60)	J(430)	σJ(430)	J(516)	σJ(516)
1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
2	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
3	0.2658	0.0106	0.1599	0.0015	0.1432	0.0018	0.0407	0.0006	0.0333	0.0006
4	0.2665	0.0074	0.1693	0.0012	0.1566	0.0015	0.0371	0.0006	0.0284	0.0003
5	0.4448	0.0140	0.1969	0.0011	0.1801	0.0017	0.0352	0.0002	0.0334	0.0004
6	0.3459	0.0108	0.2103	0.0011	0.1954	0.0017	0.0417	0.0005	0.0320	0.0005
7	0.4424	0.0113	0.2947	0.0118	0.2596	0.0075	0.0478	0.0019	0.0360	0.0013
8	0.4692	0.0147	0.2961	0.0102	0.2558	0.0077	0.0415	0.0015	0.0342	0.0011
9	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
10	0.4383	0.0101	0.2827	0.0043	0.2483	0.0027	0.0366	0.0007	0.0326	0.0004
11	0.4551	0.0079	0.2768	0.0036	0.2414	0.0027	0.0340	0.0006	0.0293	0.0007
12	0.4184	0.0092	0.2461	0.0026	0.2256	0.0019	0.0377	0.0006	0.0242	0.0004
13	0.4785	0.0105	0.2650	0.0018	0.2314	0.0021	0.0358	0.0003	0.0305	0.0004
14	0.4980	0.0134	0.2617	0.0028	0.2316	0.0015	0.0339	0.0011	0.0293	0.0004
15	0.5635	0.0104	0.2788	0.0027	0.2498	0.0016	0.0374	0.0007	0.0291	0.0007
16	0.6448	0.0108	0.2991	0.0026	0.2602	0.0018	0.0303	0.0006	0.0274	0.0002
17	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
18	0.6971	0.0075	0.2960	0.0019	0.2675	0.0024	0.0358	0.0009	0.0243	0.0005
19	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
20	0.6795	0.0097	0.2901	0.0016	0.2643	0.0018	0.0385	0.0004	0.0254	0.0003
21	1.0349	0.0203	0.3163	0.0020	0.2980	0.0042	0.0324	0.0005	0.0271	0.0010
22	0.9330	0.0123	0.3173	0.0023	0.2781	0.0024	0.0321	0.0006	0.0233	0.0003
23	0.9865	0.0103	0.3234	0.0031	0.2754	0.0021	0.0302	0.0007	0.0264	0.0003
24	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
25	1.2765	0.0172	0.3017	0.0022	0.2629	0.0031	0.0334	0.0005	0.0263	0.0010
26	1.1363	0.0119	0.2993	0.0016	0.2601	0.0031	0.0340	0.0007	0.0239	0.0006
27	1.0924	0.0135	0.2999	0.0032	0.2615	0.0016	0.0285	0.0010	0.0225	0.0006
28	1.1751	0.0185	0.3093	0.0015	0.2666	0.0026	0.0322	0.0004	0.0257	0.0012
29	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
30	0.9153	0.0122	0.3143	0.0038	0.2713	0.0024	0.0301	0.0005	0.0261	0.0008
31	0.8302	0.0116	0.3205	0.0021	0.2767	0.0022	0.0291	0.0003	0.0221	0.0005
32	0.7312	0.0131	0.3013	0.0026	0.2596	0.0015	0.0327	0.0005	0.0264	0.0003
33	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
34	0.7585	0.0097	0.3389	0.0026	0.2896	0.0034	0.0276	0.0006	0.0246	0.0009
35	0.7788	0.0175	0.3742	0.0058	0.3200	0.0049	0.0318	0.0012	0.0218	0.0012
36	0.8384	0.0086	0.3464	0.0032	0.2952	0.0018	0.0271	0.0003	0.0246	0.0003
37	0.8498	0.0121	0.3541	0.0042	0.3089	0.0028	0.0330	0.0018	0.0213	0.0002
38	0.8296	0.0141	0.3456	0.0032	0.3021	0.0041	0.0300	0.0017	0.0251	0.0005
39	0.7731	0.0184	0.3254	0.0031	0.2903	0.0057	0.0349	0.0011	0.0226	0.0018
40	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
41	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
42	0.6507	0.0212	0.2882	0.0045	0.2641	0.0034	0.0285	0.0008	0.0283	0.0014
43	0.6198	0.0146	0.2765	0.0022	0.2323	0.0056	0.0300	0.0010	0.0262	0.0009
44	0.5772	0.0186	0.2757	0.0036	0.2578	0.0041	0.0368	0.0012	0.0278	0.0016
45	0.5375	0.0143	0.2837	0.0022	0.2574	0.0033	0.0375	0.0004	0.0259	0.0006
46	0.5896	0.0129	0.2749	0.0013	0.2444	0.0028	0.0310	0.0003	0.0254	0.0007
47	0.5251	0.0124	0.2740	0.0023	0.2471	0.0023	0.0314	0.0007	0.0235	0.0002
48	0.5610	0.0116	0.2589	0.0025	0.2325	0.0019	0.0352	0.0008	0.0257	0.0007
49	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
50	0.5965	0.0089	0.3021	0.0034	0.2668	0.0033	0.0306	0.0005	0.0238	0.0005
51	0.6561	0.0098	0.3367	0.0060	0.2994	0.0053	0.0325	0.0006	0.0254	0.0007
52	0.6194	0.0114	0.3008	0.0026	0.2700	0.0031	0.0307	0.0007	0.0249	0.0009
53	0.5250	0.0338	0.2866	0.0044	0.2585	0.0035	0.0351	0.0011	0.0303	0.0011
54	0.5059	0.0142	0.2572	0.0024	0.2217	0.0028	0.0332	0.0006	0.0289	0.0005
55	0.4514	0.0223	0.2620	0.0027	0.2329	0.0025	0.0357	0.0005	0.0282	0.0005
56	0.4115	0.0141	0.2462	0.0035	0.2138	0.0023	0.0334	0.0012	0.0283	0.0010
57	0.3178	0.0178	0.1698	0.0032	0.1737	0.0022	0.0396	0.0010	0.0303	0.0007
58	0.3842	0.0273	0.2362	0.0099	0.2117	0.0101	0.0559	0.0038	0.0441	0.0025
59	0.3533	0.0187	0.1695	0.0033	0.1549	0.0024	0.0414	0.0013	0.0305	0.0006

[a]Values of the spectral density function are given in ns/rad, "N.D." indicates a value was not determined. [b] σX indicates the standard deviation of parameter X.

Supplementary Material 9: Model-Free Spectral Density Function Parameters Determined for the Folded State of drkN SH3[a]

	14°C				30°C			
Residue	S^2	$^b\sigma S^2$	τ_e	$\sigma\tau_e$	S^2	σS^2	τ_e	$\sigma\tau_e$
1								
2	0.757	0.007	0.050	0.007	0.768	0.008	0.110	0.013
3	0.847	0.007	0.017	0.016	0.836	0.014	0.133	0.085
4	0.844	0.009	0.047	0.023	0.826	0.012	0.142	0.039
5	0.876	0.017	0.102	0.093	0.904	0.038	0.162	0.556
6	0.893	0.010	0.000	0.000	0.898	0.010	0.044	0.030
7	0.851	0.006	0.010	0.007	0.859	0.004	0.077	0.011
8	0.807	0.007	0.012	0.012				
9	0.879	0.006	0.002	0.003	0.860	0.008	0.094	0.010
10	0.797	0.004	0.017	0.004	0.847	0.006	0.052	0.007
11	0.907	0.006	0.000	0.000	0.837	0.002	0.217	0.005
12	0.788	0.006	0.047	0.008	0.774	0.008	0.070	0.011
13	0.699	0.003	0.036	0.001	0.691	0.004	0.040	0.002
14	0.792	0.005	0.022	0.007	0.841	0.008	0.093	0.017
15	0.816	0.005	0.049	0.008	0.825	0.006	0.067	0.011
16					0.835	0.005	0.046	0.006
17	0.835	0.006	0.000	0.000	0.862	0.010	0.058	0.009
18	0.740	0.004	0.048	0.005	0.767	0.005	0.072	0.009
19	0.876	0.008	0.047	0.023	0.909	0.028	0.155	0.272
20	0.864	0.010	0.030	0.023				
21								
22	0.918	0.009	0.016	0.018	0.898	0.008	0.008	0.014
23	0.907	0.006	0.000	0.014	0.773	0.016	1.171	0.114
24	0.804	0.008	0.068	0.020	0.778	0.034	0.166	0.185
25	0.831	0.011	0.041	0.017	0.903	0.008	0.066	0.037
26	0.850	0.006	0.000	0.000	0.839	0.008	0.109	0.009
27	0.826	0.005	0.000	0.002	0.852	0.007	0.000	0.008
28	0.861	0.013	0.000	0.002				
29	0.827	0.004	0.002	0.005	0.875	0.008	0.015	0.013
30	0.819	0.009	0.031	0.010	0.856	0.007	0.048	0.018
31	0.871	0.003	0.015	0.010	0.757	0.005	0.067	0.007
32	0.767	0.008	0.055	0.010	0.725	0.006	0.099	0.011
33	0.758	0.007	0.058	0.010	0.734	0.008	0.088	0.016
34								
35								
36	0.836	0.006	0.019	0.011	0.843	0.006	0.048	0.014
37	0.884	0.009	0.000	0.000	0.857	0.008	0.060	0.013
38	0.835	0.006	0.015	0.010	0.842	0.009	0.045	0.017
39	0.844	0.005	0.000	0.005	0.929	0.010	0.000	0.019
40	0.847	0.005	0.000	0.000	0.851	0.008	0.061	0.024
41	0.850	0.006	0.011	0.012	0.882	0.008	0.070	0.029
42	0.850	0.005	0.000	0.001				
43	0.796	0.006	0.010	0.010	0.811	0.008	0.037	0.016
44	0.829	0.007	0.023	0.012	0.821	0.009	0.113	0.020
45	0.765	0.007	0.036	0.020	0.786	0.014	0.086	0.031
46	0.860	0.003	0.000	0.000				
47								
48	0.858	0.010	0.000	0.014	0.919	0.009	0.000	0.042
49								
50	0.891	0.006	0.000	0.009	0.853	0.007	0.043	0.019
51	0.865	0.004	0.013	0.012	0.906	0.006	0.024	0.023
52	0.865	0.010	0.010	0.007	0.879	0.008	0.063	0.013
53	0.909	0.006	0.000	0.010	0.926	0.010	0.058	0.049
54	0.834	0.007	0.037	0.012				
55	0.782	0.004	0.064	0.006	0.818	0.007	0.098	0.009
56								
57								
58								
59								

[a]Values of the model-free spectral density function parameters were determined from data collected at 500 and 600 MHz. Parameters are given for residues that had a T_1/T_2 ratio less than 1 standard deviation from the mean value. [b] σX indicates the standard deviation of parameter X.

Supplementary Material 10: Model-Free Spectral Density Function Parameters Determined for the Unfolded State of drkN SH3[a]

	14°C				30°C			
Residue	S^2	$^b\sigma S^2$	τ_e	$\sigma\tau_e$	S^2	σS^2	τ_e	$\sigma\tau_e$
1								
2								
3								
4								
5	0.371	0.001	0.125	0.001	0.258	0.001	0.124	0.001
6								
7								
8	0.474	0.001	0.116	0.001	0.368	0.003	0.142	0.004
9	0.451	0.002	0.121	0.001				
10	0.452	0.002	0.126	0.002				
11	0.448	0.002	0.120	0.002	0.374	0.002	0.124	0.002
12	0.440	0.002	0.080	0.001	0.356	0.003	0.111	0.002
13	0.446	0.002	0.116	0.002	0.365	0.002	0.136	0.002
14	0.458	0.002	0.116	0.001	0.383	0.003	0.121	0.002
15	0.482	0.002	0.127	0.002	0.401	0.003	0.149	0.003
16	0.522	0.002	0.117	0.002	0.448	0.002	0.118	0.002
17	0.000	0.000	0.000	0.000				
18	0.529	0.002	0.085	0.002	0.463	0.039	0.105	0.049
19								
20	0.546	0.002	0.089	0.001	0.433	0.002	0.143	0.002
21								
22	0.599	0.004	0.089	0.004				
23								
24								
25								
26								
27								
28								
29								
30	0.570	0.002	0.130	0.002	0.513	0.003	0.148	0.004
31	0.545	0.003	0.105	0.002	0.494	0.003	0.119	0.002
32	0.547	0.003	0.105	0.004	0.454	0.003	0.124	0.002
33	0.566	0.003	0.128	0.002				
34	0.570	0.003	0.097	0.003	0.518	0.003	0.114	0.003
35	0.633	0.007	0.093	0.005	0.564	0.006	0.134	0.007
36	0.602	0.012	0.072	0.017	0.542	0.002	0.126	0.001
37	0.661	0.004	0.120	0.005	0.576	0.003	0.101	0.002
38	0.625	0.004	0.080	0.002	0.530	0.003	0.113	0.003
39	0.596	0.003	0.077	0.003	0.489	0.005	0.140	0.006
40								
41								
42	0.541	0.005	0.101	0.004	0.445	0.005	0.122	0.004
43	0.497	0.002	0.094	0.002	0.406	0.017	0.104	0.018
44	0.516	0.005	0.108	0.003	0.399	0.006	0.146	0.006
45	0.503	0.003	0.107	0.002	0.403	0.003	0.142	0.002
46	0.480	0.003	0.094	0.002	0.391	0.002	0.114	0.001
47	0.506	0.003	0.093	0.002	0.423	0.003	0.087	0.001
48	0.502	0.002	0.084	0.001	0.380	0.002	0.117	0.002
49								
50	0.510	0.002	0.081	0.001	0.445	0.003	0.109	0.002
51	0.537	0.004	0.096	0.003	0.486	0.004	0.134	0.003
52	0.533	0.002	0.095	0.002	0.446	0.003	0.117	0.003
53	0.520	0.006	0.149	0.006	0.417	0.005	0.145	0.005
54	0.467	0.003	0.123	0.002	0.365	0.003	0.114	0.002
55	0.464	0.006	0.112	0.005	0.368	0.003	0.133	0.002
56					0.340	0.068	0.119	0.059
57					0.244	0.003	0.117	0.003
58								
59					0.229	0.004	0.111	0.003

[a]Values of the model-free spectral density function parameters were determined from data collected at 500 and 600 MHz. Parameters are given for residues that had a T_1/T_2 ratio less than 1 standard deviation from the mean value. [b] σX indicates the standard deviation of parameter X.