Dataset S4. 13 C PCB chromophore contacts of the protein residues. The data were obtained from u-[13 C, 15 N]-PCB-Cph1 Δ 2 with an LG–CP contact time of 2.3 ms in both Pr and Pfr states. 1 H NMR chemical shift differences ($\Delta \sigma^{H}$) of the chromophore contacts during Pr-to-Pfr photoconversion are listed at the right-most column as the values for Pfr minus those for Pr.

				Pr				Pfr		
Proton cor	ntact	σ ^{proton} (ppm)	Cofactor carbon	σ ^{carbon} (ppm) ^[3, 4]	XRD distance (Å) [6]	σ ^{proton} (ppm)	Cofactor carbon	σ ^{carbon} (ppm) ^[3, 4]	XRD distance (Å) [14]	$\Delta\sigma^{\text{proton (Pfr-Pr)}}$ (ppm)
Ala-212	СВ	- - 3.6	- - 8	- - 145.2	- - 3.96	4.2 4.2 4.2	7 7¹ 8	126.3 9.2 143.6	4.17 4.20 4.01	+0.6
		3.6	8¹ -	22.8	3.87	4.2 4.2	8 ¹ 9	22.9 131.0	3.83 4.75	
Ala-256	CA	6.6	- 8³	180.1	3.90	5.7 5.7	8 ² 8 ³	41.8 180.3	-	-0.9
	СВ	4.0	8 ³	180.1	3.96	-	-	-	-	-
Ala-288	CA	6.7	19	172.7	4.48	-	-	-	-	-
	СВ	3.2	- 19	- 172.7	5.88	3.6	13¹ -	11.3	-	+0.4
Arg-222	СВ	- 4.4 4.4	- 12² 12³	38.1 179.0	4.71 4.49	3.9	8³ - -	180.3	6.00	-0.5
	CG	-	-	-	-	2.9	8 ³	180.5	5.01	-
	NH1	-	-	-	:	11.6 11.6	8 ² 8 ³	41.8 180.3	4.62 3.16	-
	NH2	-	-	-	-	12.2	8 ³	180.3	4.00	-
Arg-254	NH1	8.5	8 ³	180.1	3.81	-	-	-	-	-
	NH2	10.8 10.8	8 ² 8 ³	180.1 180.1	5.24 3.65	- 10.4	- 8³	180.3	- 3.97	-0.4
Arg-472	NH1	12.2 - -	17¹ - -	9.9 - -	5.42 - -	8.5 8.5	- 18 19	140.4 169.0	-	-3.7
Asp-207*	CA	6.4	1 -	184.1	3.83	5.8 5.8	1 2	182.9 37.3	3.89 4.25	-0.6
		6.4	21	17.4	4.65	5.8 5.8	2¹ 3	18.2 54.3	4.78 4.71	
		-	-	-		5.8	15	91.5	4.51	
		-	-	-	-	5.8	16	151.1	5.68	

^{*}Continued on following page.

		Pfr				Pr				
$\Delta\sigma^{\text{proton (Pfr-Pr)}}$ (ppm)	XRD distance (Å) [14]	σ ^{carbon} (ppm) ^[3, 4]	Cofactor carbon	σ ^{proton} (ppm)	XRD distance (Å) [6]	σ ^{carbon} (ppm) ^[3, 4]	Cofactor carbon	σ ^{proton} (ppm)	ntact	Proton cor
-0.2	4.46	182.9	1	4.0	-	-	-	-	СВ	Asp-207
	5.13	37.3	2	4.0	-	-	-	-		•
	5.57	130.5	13	4.0	-	-	-	-		
	4.51	152.0	14	4.0	-	-	-	-		
	3.63	91.5	15	4.0	-	-	-	-		
	4.53	151.1	16	4.0	-	-	-	-		
	5.93	137.7	17	4.0	-	-	-	-		
	-	-	-	-	4.05	9.9	17¹	4.2		
+0.6	4.96	182.9	1	10.8	4.55	184.1	1	10.2	N	
	4.98	37.3	2	10.8	-	-	-	-		
	5.20	18.2	21	10.8	-	-	-	-		
	5.39	54.3	3	10.8	-	-	-	-		
	5.86	91.5	15	10.8	-	-	-	-		
+0.6	-	49.9	3¹	6.2	4.29	47.5	3 ¹	5.6	CA	Cys-259
	-	21.4	3 ²	6.2	-	-	-	-		•
+0.6	_	54.3	3	4.5	4.44	53.3	3	3.9	СВ	
	_	49.9	3¹	4.5	3.07	47.5	3¹	3.9		
	-	21.4	3 ²	4.5	3.59	21.9	3 ²	3.9		
_	4.90	126.3	7	6.0	-	-	-	-	CA	His-260*
	5.30	143.6	8	6.0	-	-	-	-	0,1	1.110 200
-0.3	3.65	126.3	7	4.8	3.97	125.5	7	5.1	СВ	
	4.23	9.2	7 ¹	4.8	_	<u>-</u>	-	<u>-</u>		
	3.89	143.6	8	4.8	3.77	145.2	8	5.1		
	4.67	22.9	8 ¹	4.8	4.17	22.8	8 ¹	5.1		
	4.20	41.8	8 ²	4.8	4.39	42.9	8 ²	5.1		
	5.57	180.3	8 ³	4.8	-	-	-	-		
	-	-	-	-	3.76	127.9	9	5.1		
-	_	-	-	-	4.39	22.8	8¹	15.4	CD2-I	
	_	-	-	-	4.32	127.9	9	15.4		
	_	-	-	-	3.89	112.8	10	15.4		
	_	-	-	-	4.32	127.9	11	15.4		

^{*}Continued on following page.

				Pr				Pfr		
Proton cor	ntact	σ ^{proton} (ppm)	Cofactor carbon	σ ^{carbon} (ppm) ^[3, 4]	XRD distance (Å) [6]	σ ^{proton} (ppm)	Cofactor carbon	σ ^{carbon} (ppm) ^[3, 4]	XRD distance (Å) [14]	$\Delta\sigma^{\text{proton (Pfr-Pr)}}$ (ppm)
His-260*	CD2-II	11.4	7	125.5	5.49	11.0	7	126.3	4.89	-0.4
		-	-	-	-	11.0	8	143.6	4.34	
		11.4	8¹	22.8	4.39	11.0	8¹	22.9	4.47	
		-	-	-	-	11.0	8 ²	41.8	3.42	
		-	-	-	-	11.0	8 ³	180.3	4.44	
		11.4	9	127.9	4.32	11.0	9	131.0	4.36	
		11.4	10	112.8	3.89	11.0	10	112.4	4.46	
		11.4	11	127.9	4.32	11.0	11	131.0	5.12	
		11.4	121	20.4	3.89	-	-	-	-	
		11.4	12 ²	38.1	5.00	-	-	-	-	
		11.4	12³	179.0	3.89	-	-	-	-	
	CE1	10.0	7	125.5	6.02	10.1	7	126.3	5.42	+0.1
		10.0	8	145.2	5.14	10.1	8	143.6	4.68	
		10.0	9	127.9	4.24	10.1	9	131.0	4.04	
		10.0	10	112.8	3.54	10.1	10	112.4	3.67	
		10.0	11	127.9	3.25	10.1	11	131.0	3.74	
		10.0	12	145.2	3.55	10.1	12	145.8	4.12	
		10.0	121	20.4	3.54	10.1	121	20.6	4.67	
		10.0	12 ²	38.1	4.66	10.1	12 ²	38.4	4.18	
		10.0	12³	179.0	3.54	-	-	-	-	
		10.0	13	126.5	3.99	10.1	13	130.5	4.71	
		10.0	14	146.1	3.89	10.1	14	152.0	4.64	
	N	10.2	3	53.3	5.61	_	_	_	_	+0.1
		10.2	6	149.3	4.71	_	_	_	_	
		10.2	7	125.5	4.78	_	-	_	_	
		10.2	71	9.3	5.05	10.3	71	9.2	5.30	
	ND1-I	12.3	8	145.2	4.44	_	-	-	_	_
		12.3	9	127.9	3.61	_	-	_	_	
		12.3	10	112.8	3.39	-	-	_	_	
		12.3	11	127.9	3.51	_	-	-	-	
		12.3	12	145.2	4.25	-	-	-	-	
		12.3	121	20.4	4.89	-	-	-	-	

^{*}Continued on following page.

				Pr				Pfr		
Proton co	ntact	σ ^{proton} (ppm)	Cofactor carbon	σ ^{carbon} (ppm) ^[3, 4]	XRD distance (Å) [6]	σ ^{proton} (ppm)	Cofactor carbon	σ ^{carbon} (ppm) ^[3, 4]	XRD distance (Å) [14]	$\Delta\sigma^{\text{proton (Pfr-Pr)}}$ (ppm)
His-260	ND1-I	12.3	12³	179.0	5.17	-	-	-	-	-
		12.3	13	126.5	4.83	-	-	-	-	
		12.3	13¹	11.4	6.03	-	-	-	-	
		12.3	14	146.1	4.45	-	-	-	-	
	NE2-I	17.9	8	145.2	5.22	-	-	-	-	-
		17.9	9	127.9	4.63	-	-	-	-	
		17.9	10	112.8	3.83	-	-	-	-	
		17.9	11	127.9	3.78	-	-	-	-	
		17.9	12	145.2	3.75	-	-	-	-	
		17.9	121	20.4	3.83	-	-	-	-	
		17.9	12 ²	38.1	4.15	-	-	-	-	
		17.9	12³	179.0	3.83	-	-	-	-	
		17.9	13	126.5	4.47	-	-	-	-	
		17.9	13¹	11.4	5.32	-	-	-	-	
		17.9	14	146.1	4.72	-	-	-	-	
	NE2-II	14.0	8	145.2	5.22	13.1	8	143.6	4.81	-0.9
		14.0	8¹	22.8	5.10	13.1	81	22.9	4.91	
		-	-	-	-	13.1	8 ²	41.8	3.98	
		14.0	9	127.9	4.63	13.1	9	131.0	4.52	
		14.0	10	112.8	3.83	13.1	10	112.4	4.21	
		14.0	11	127.9	3.78	13.1	11	131.0	4.62	
		14.0	12	145.2	3.75	13.1	12	145.8	4.97	
		14.0	121	20.4	3.83	13.1	121	20.6	5.19	
		14.0	12 ²	38.1	4.15	13.1	12 ²	38.4	4.47	
		14.0	12³	179.0	3.83	13.1	12 ³	175.3	4.88	
		-	-	-	-	13.1	13	130.5	5.77	
His-290*	CE1	-	-	-	-	9.8	12³	175.3	4.31	-0.9
		10.7	17	142.1	5.46	-	-	-	-	
		10.7	18	134.2	4.42	_	-	-	_	
		10.7	181	16.5	4.55	-	-	-	_	
		10.7	18 ²	13.2	3.48	-	-	-	_	
		10.7	19	172.7	3.87	-	-	-	-	

^{*}Continued on following page.

		Pfr				Pr					
$\Delta\sigma^{ ext{proton (Pfr-Pr)}}$ (ppm)	XRD distance (Å) [14]	σ ^{carbon} (ppm) ^[3, 4]	Cofactor carbon	σ ^{proton} (ppm)	XRD distance (Å) [6]	σ ^{carbon} (ppm) ^[3, 4]	Cofactor carbon	σ ^{proton} (ppm)	ntact	Proton co	
-	-	-	-	-	5.63	16.5	18¹	11.7	ND1	His-290	
	-	-	-	-	4.38	13.2	18 ²	11.7			
	-	-	-	-	5.15	172.7	19	11.7			
-0.4	3.55	175.3	12³	12.3	-	-	-	-	NE2		
	-	-	-	-	4.60	134.2	18	12.7			
	-	-	-	-	5.10	16.5	18¹	12.7			
	-	-	-	-	4.29	13.2	18 ²	12.7			
	-	-	-	-	3.68	172.7	19	12.7			
-	-	-	-	-	4.26	21.9	3 ²	6.7	CA	His-470	
-0.6	_	21.4	3 ²	9.8	3.96	21.9	3 ²	10.4	N		
_	-	-	-	-	4.39	42.9	8 ²	3.7	СВ	lle-20	
-0.2		22.9	8 ¹	2.3	4.11	22.8		2.5	CD1	110 20	
-0.2	-	41.8	8 ²	2.3	3.60	42.9	8¹ 8²	2.5	CDI		
		180.3	8 ³	2.3	3.53	180.1	8 ³	2.5			
		100.5	O	2.0					001		
	-				4.29	180.1	8³	3.2	CG1		
-1.0	-	9.2	71	2.0	-	-	-	-	CG2		
	-	-	-	-	4.16	42.9	8 ²	3.0			
+0.3	5.17	131.0	9	4.7	-	-	-	-	СВ	lle-208*	
	5.02	112.4	10	4.7	-	-	-	-			
	4.80	131.0	11	4.7	-	-	-	-			
	5.22	145.8	12	4.7	-	-	-	-			
	5.42	130.5	13	4.7	4.88	126.5	13	4.4			
	5.27	152.0	14	4.7	-	-	-	-			
+0.1	4.43	112.4	10	2.9	-	-	-	-	CD1		
	3.82	131.0	11	2.9	-	-	-	-			
	3.54	145.8	12	2.9	-	-	-	-			
	3.79	20.6	121	2.9	-	-	-	-			
	3.67	130.5	13	2.9	3.76	126.5	13	2.8			
	4.15	11.3	131	2.9	3.96	11.4	13¹	2.8			
	4.13	152.0	14	2.9	3.58	146.1	14	2.8			
	-	-	-	-	3.74	93.2	15	2.8			
	-	-	-	-	4.44	146.1	16	2.8			

^{*}Continued on following page.

				Pr				Pfr		
Proton cor	ntact	σ ^{proton} (ppm)	Cofactor carbon	σ ^{carbon} (ppm) ^[3, 4]	XRD distance (Å) [6]	σ ^{proton} (ppm)	Cofactor carbon	σ ^{carbon} (ppm) ^[3, 4]	XRD distance (Å) [14]	$\Delta\sigma^{ ext{proton (Pfr-Pr)}}$ (ppm)
Ile-208	CG1	- - 3.4 3.4	- - - 13 14	- - - 126.5 146.1	- - - 4.06 3.44	3.3 3.3 3.3 3.3 3.3	11 12 12' 13 14	131.0 145.8 20.6 130.5 152.0	3.78 3.99 4.68 3.99 3.91	-0.1
		3.4 3.4	15 16	93.2 146.1	3.59 4.64	3.3	15 -	91.5	4.61	
	CG2	3.5 3.5 10.3	- 10 11 15	112.8 127.9 93.2	4.72 4.26 4.95	3.1 - - -	8 - - -	143.6 - - - -	5.48 - - - -	-0.4 -
Leu-15	CD1 CD2	3.2 3.0 3.0 3.0 3.0	2¹ 2 3 3¹ 4	17.4 37.1 53.3 47.5 154.0	4.07 4.80 3.82 4.49 4.39	2.8 - 2.6 2.6 2.6	2' - 3 3' 4	18.2 - 54.3 49.9 153.7		-0.4 -0.4
Leu-18	CD1	2.5	71	9.3	3.99	-	-	-	-	-
Leu-469 Met-174	CE	3.2 - 3.8 3.8 3.8 3.8	3 ² - 18 18 ¹ 18 ²	21.9 - 134.2 16.5 13.2 172.7	3.39 - 4.65 4.22 2.95 4.32	3.4 3.2 - 3.2 -	3² 17¹ - 18¹ -	21.4 9.9 - 15.7 -	5.92 - 4.73 - -	+0.2 -0.6
Met-267	CE	2.9 2.9	18¹ 18²	16.5 13.2	4.16 4.25	2.6 2.6	18¹ 18²	15.7 13.3	4.21 4.58	-0.3
Phe-216*	CE2	7.3 7.3	12¹ 12²	20.4 38.1	3.78 3.73	7.0 7.0	12¹ 12²	20.6 38.4		-0.3

^{*}Continued on following page.

		Pfr								
$\Delta\sigma^{\text{proton (Pfr-Pr)}}$ (ppm)	XRD distance (Å) [14]	σ ^{carbon} (ppm) ^[3, 4]	Cofactor carbon	σ ^{proton} (ppm)	XRD distance (Å) [6]	σ ^{carbon} (ppm) ^[3, 4]	Cofactor carbon	σ ^{proton} (ppm)	ntact	Proton cor
-0.3	-	20.6	12¹	6.5	4.14	20.4	12¹	6.8	CZ	Phe-216
	-	38.4	12 ²	6.5	3.61	38.1	12 ²	6.8		
	-	175.3	12³	6.5	-	-	-	-		
-0.1	4.72	49.9	3 ¹	5.6	-	-	-	-	CD	Pro-209
	3.71	149.3	6	5.6	3.49	149.3	6	5.7		
	-	-	-	-	4.12	125.5	7	5.7		
	4.56	9.2	71	5.6	-	-	-	-		
	-	-	-	-	4.36	145.2	8	5.7		
	4.72	131.0	9	5.6	4.01	127.9	9	5.7		
-	4.36	54.3	3	5.1	-	-	-	-	CG	
	3.96	49.9	3 ¹	5.1	-	-	-	-		
	4.05	21.4	3 ²	5.1	-	-	-	-		
	4.26	149.3	6	5.1	-	-	-	-		
-	5.83	49.9	3¹	11.8	-	-	-	-	N	
	5.43	126.3	7	11.8	-	-	-	-		
-0.4	-	37.3	2	5.3	4.60	37.1	2	5.7	CA	Pro-471
_	_	37.3	2	3.4	_	_	_	_	СВ	
_	_	_	-	_	4.63	21.9	3 ²	5.3	CD	
-0.1	_	_	_	_	4.94	47.5	3 ¹	11.5	N	
0.1	-	21.4	3 ²	11.4	4.22	21.9	3 ²	11.5	••	
+0.2	5.57	18.2	2¹	5.0	4.31	17.4	2¹	4.8	СВ	Ser-206
-0.6	5.25	18.2	21	7.4	4.25	17.4	21	8.0	OG	
										0 070
-1.0	4.75	38.4	12 ²	6.0	4.70	-	-	- 70	OG	Ser-272
	4.86	175.3	12³	6.0	4.73	179.0	12³	7.0		
-0.3	-	38.4	12 ²	3.4	-	-	-	-	СВ	Thr-274*
	-	175.3	12³	3.4	3.94	179.0	12³	3.7		
	-	-	-	-	4.87	11.4	13¹	3.7		
+0.7	-	-	-	-	4.72	20.4	121	2.1	CG2	
	-	38.4	12 ²	2.8	3.53	38.1	12 ²	2.1		
	-	-	-	-	4.20	11.4	13¹	2.1		

^{*}Continued on following page.

_		Pfr			Pr					
$\Delta\sigma^{ ext{proton (Pfr-Pr)}}$ (ppm)	XRD distance (Å) [14]	σ ^{carbon} (ppm) ^[3, 4]	Cofactor carbon	σ ^{proton} (ppm)	XRD distance (Å) [6]	o ^{carbon} (ppm) [3, 4]	Cofactor carbon	σ ^{proton} (ppm)	ntact	Proton cor
-0.1	-	38.4	12²	10.6	3.14	38.1	12²	10.7	OG1	Thr-274
	-	175.3	12 ³	10.6	3.14	179.0	12 ³	10.7		
	-	-	-	-	4.21	11.4	13¹	10.7		
+0.5	3.47	11.3	13¹	9.3	-	-	-	-	CE1	Tyr-176
	-	-	-	-	4.67	142.1	17	8.8		•
	-	-	-	-	4.72	134.2	18	8.8		
	5.93	9.9	171	9.5	_	_	_	_	CE2	
-0.1	3.94	175.3	12³	9.0	_	_	_	_	ОН	
-0.1	4.24	9.9	17¹	9.0	4.55	9.9	17¹	9.1	011	
	1.21	0.0	.,	0.0						
•	-	-	-	-	3.46	13.2	18²	10.0	CD2	Tyr-198
•	-	-	-	-	3.75	13.2	18²	9.4	CE2	
	5.54	169.0	19	5.2	-	-	-	-	CA	Tyr-203*
+0.9	5.08	91.5	15	4.6	_	_	_	_	СВ	
	4.72	151.1	16	4.6	-	-	-	-		
	5.72	137.7	17	4.6	-	-	-	-		
	-	-	-	-	4.22	9.9	171	3.7		
	5.46	140.4	18	4.6	-	-	-	-		
	4.24	169.0	19	4.6	-	-	-	-		
	5.98	9.9	17¹	10.0	-	-	-	-	CD1	
	4.43	140.4	18	10.0	-	-	-	-		
	3.65	169.0	19	10.0	-	-	-	-		
-0.2	5.18	11.3	13¹	9.8	-	-	-	-	CD2	
	4.85	91.5	15	9.8	-	-	-	-		
	-	-	-	-	3.67	9.9	17¹	10.0		
	-	-	-	-	4.16	16.5	18¹	10.0		
	4.93	137.7	17	9.5	-	-	-	-	CE1	
	4.75	140.4	18	9.5	-	-	-	-		
	4.34	169.0	19	9.5	-	-	-	-		
-0.1	5.15	130.5	13	9.3	-	-	-	-	CE2	
	-	-	-	-	3.71	16.5	18¹	9.4		

^{*}Continued on following page.

		Pfr				Pr				
$\Delta\sigma^{ ext{proton (Pfr-Pr)}}$ (ppm)	XRD distance (Å) [14]	σ ^{carbon} (ppm) ^[3, 4]	Cofactor carbon	σ ^{proton} (ppm)	XRD distance (Å) [6]	σ ^{carbon} (ppm) ^[3, 4]	Cofactor carbon	σ ^{proton} (ppm)	contact	Proton co
-0.7	6.65 - -	9.9 - -	17¹ - -	7.3 - -	4.00 4.12	16.5 13.2	- 18¹ 18²	8.0 8.0	ОН	Tyr-203
-0.9	-	9.2 - -	7¹ - -	3.6 - -	3.47 3.88 4.45	9.3 42.9 180.1	7¹ 8² 8³	4.5 4.5 4.5	СВ	Tyr-257
+0.1	:	9.2	7¹ - -	9.7	3.34 3.81 3.69	9.3 42.9 180.1	7¹ 8² 8³	9.6 9.8 9.8	CD2	
-	4.04	182.9	1	9.4	-	-	-	-	CD2	Tyr-263
-0.7	5.00 4.26 3.95 4.00 4.37 4.30	91.5 151.1 137.7 140.4 15.7 169.0	15 16 17 18 18' 19	9.0 9.0 9.0 9.0 9.0	4.33 4.29 4.15 - -	93.2 146.1 142.1 - -	15 16 17 - -	9.7 9.7 9.7 - -	CE1	
-	4.37 5.35	182.9 152.0	1 14	8.8 8.8	-	-	-	-	CE2	
-0.5	5.96 4.61 3.70 3.92 3.55 4.26 4.54 3.04	152.0 91.5 151.1 137.7 140.4 15.7 13.3	14 15 16 17 18 18 ¹ 18 ²	7.7 7.7 7.7 7.7 7.7 7.7 7.7	3.54 4.30 4.56	- 142.1 134.2 16.5	- - 17 18 18' -	- - 8.2 8.2 8.2	ОН	
-	-	-	-	-	4.47 3.68	37.1 17.4	2 2¹	3.7 3.7	СВ	Tyr-458
-0.1	6.19 5.69	15.7 13.3	18¹ 18²	1.5 1.5	4.76	16.5 -	18¹ -	1.6	CG2	Val-186

				Pr				Pfr		
Proton co	ontact	σ ^{proton} (ppm) C	Cofactor carbon	σ ^{carbon} (ppm) ^[3, 4]	XRD distance (Å) [6]	σ ^{proton} (ppm)	Cofactor carbon	σ ^{carbon} (ppm) ^[3, 4]	XRD distance (Å) [14]	$\Delta\sigma^{\text{proton (Pfr-Pr)}}$ (ppm)
W1	W1-I	7.2	1	184.1	3.05	-	-	-	-	
		7.2	9	127.9	3.90	-	-	-	-	
		7.2	10	112.8	4.15	-	-	-	-	
		7.2	11	127.9	3.93	-	-	-	-	
	W1-II	7.7	1	184.1	3.05	7.1	1	182.9	3.37	-0.6
		7.7	8	145.2	5.18	-	-	-	-	
		7.7	9	127.9	3.90	7.1	9	131.0	3.88	
		7.7	10	112.8	4.15	7.1	10	112.4	4.23	
		7.7	11	127.9	3.93	7.1	11	131.0	3.78	
		7.7	12	145.2	5.16	7.1	12	145.8	4.75	
		-	-	-	-	7.1	13	130.5	4.63	
		7.7	14	146.1	4.05	7.1	14	152.0	3.51	
		7.7	15	93.2	4.08	7.1	15	91.5	3.60	
		-	-	-	-	7.1	16	151.1	4.58	
W2		7.9	8¹	22.8	4.74	8.1	8¹	22.9	-	+0.2
		7.9	8 ²	42.9	4.70	8.1	8 ²	41.8	-	
		7.9	8 ³	180.1	3.90	8.1	8 ³	180.3	-	
		7.9	121	20.4	4.48	-	-	-	-	
		7.9	12 ²	38.1	4.44	-	-	-	-	
		7.9	12³	179.0	3.59	-	-	-	-	
W3		8.0	12 ²	38.1	4.59	7.5	12 ²	38.4	-	-0.5
		8.0	12³	179.0	3.10	7.5	12³	175.3	-	
W4 (-II)		9.0	12	145.2	5.25	-	_	-	-	-1.1
		-	-	-	-	7.9	121	20.6	_	
		8.9	12 ²	38.1	4.59	- 7.5	-		_	
		8.9	12³	179.0	3.50	7.9	12³	175.3	_	
		-	-	-	-	7.9	17'	9.9	-	

			Pr				Pfr		
Proton contact	σ ^{proton} (ppm)	Cofactor carbon	σ ^{carbon} (ppm) ^[3, 4]	XRD distance (Å) [6]	σ ^{proton} (ppm)	Cofactor carbon	σ ^{carbon} (ppm) ^[3, 4]	XRD distance (Å) [14]	$\Delta\sigma^{\text{proton (Pfr-Pr)}}$ (ppm)
W5 (-II)	-	-	-	-	8.5	12	145.8	-	+0.7
	-	-	-	-	8.5	121	20.6	-	
	-	-	-	-	8.5	12³	175.3	-	
	7.8	13	126.5	4.32	8.5	13	130.5	-	
	7.8	13¹	11.4	3.73	8.5	131	11.3	-	
	-	-	-	-	8.5	171	9.9	-	
	-	-	-	-	8.5	18¹	15.7	-	
	7.8	19	172.7	3.75	-	-	-	-	
W6	8.4	12³	179.0	4.92	-	-	-	-	-0.6
	8.4	13¹	11.4	4.53	7.8	13¹	11.3	-	
W7	7.7	17¹	9.9	5.56	-	-	-	-	-
	9.4	12	145.2	-	-	-	-	-	-
{W5+[OH] _{w4} } (-I)	9.4	12 ²	38.1	-	-	-	-	-	
	9.4	12³	179.0	-	-	-	-	-	
	9.4	13¹	11.4	-	-	-	-	-	
	9.4	14	146.1	-	-	-	-	-	
	9.4	16	146.1	-	-	-	-	_	
	9.4	19	172.7	-	-	-	-	-	