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## Supporting information

**Table S1:** Proton chemical shifts of CBD<sub>EGZ</sub> protein measured at 27°C and pH 4.3.

Residue	NH	C <sup>α</sup> H	C <sup>β</sup> H	Others
M1		4.15	2.17	C <sup>γ</sup> H 2.62
G2	8.68	3.83, 4.04		
D3	8.33	4.66	2.58, 2.71	
C4	8.67	4.21	3.07, 3.35	
A5	8.10	4.05	1.37	
N6	7.96	4.74 <sup>a</sup>	2.67, 2.88	N <sup>δ</sup> H <sub>Z</sub> 6.86; N <sup>δ</sup> H <sub>E</sub> 7.82
A7	7.24	4.48	1.24	
N8	9.11	4.43	2.60, 3.20	N <sup>δ</sup> H <sub>Z</sub> 6.77; N <sup>δ</sup> H <sub>E</sub> 7.15
V9	8.74	4.39	1.89	C <sup>γ</sup> H <sub>3</sub> 0.92, 1.05
Y10	9.15	3.66	2.57, 3.06	C <sub>(2,6)</sub> H 6.82; C <sub>(3,5)</sub> H 5.93
P11		2.68	0.09, 1.81	C <sup>γ</sup> H 1.19, 1.58; C <sup>δ</sup> H 3.05, 3.18
N12	9.09	4.52	2.82	N <sup>δ</sup> H <sub>Z</sub> 6.89; N <sup>δ</sup> H <sub>E</sub> 7.49
W13	6.89	4.31	2.42, 3.39	N <sub>1</sub> H 9.94; C <sub>2</sub> H 6.95; C <sub>4</sub> H 7.53; C <sub>5</sub> H 7.31; C <sub>6</sub> H 7.53; C <sub>7</sub> H 7.74
V14	8.17	3.72	1.85	C <sup>γ</sup> H <sub>3</sub> 0.88, 1.28
S15	8.45	4.82	2.69, 3.33	

K16	8.69	4.59	1.35, 1.74	C $\gamma$ H 0.81, 1.23; C $\delta$ H 1.36, 1.47; C $\epsilon$ H 2.83
D17	9.70	4.83	2.43, 2.53	
W18	7.65	4.77 <sup>a</sup>	3.32, 3.43	N $\gamma$ H 10.39; C $_2$ H 7.07; C $_4$ H 7.43; C $_5$ H 7.16; C $_6$ H 7.16; C $_7$ H 7.68
A19	8.79	3.85	1.36	
G20	6.26	2.70, 3.81		
G21	6.81	3.59, 4.02		
Q22	8.30	4.75 <sup>a</sup>	1.89	C $\gamma$ H 2.14, 2.44
P23	-	4.08	1.93, 2.20	C $\gamma$ H 1.78, 2.29; C $\delta$ H 3.62, 3.85
T24	8.98	4.49	4.39	C $\gamma$ H $_3$ 1.36
H25	7.66	3.62	2.05, 2.44	C $_2$ H 7.88; C $_4$ H 5.53
N26	8.60	5.12	2.68	N $\delta$ H $_Z$ 5.79; N $\delta$ H $_E$ 6.30
E27	7.91	4.12	1.26, 2.07	C $\gamma$ H 2.24, 2.37
A28	8.78	3.47	1.26	
G29	8.82	3.60, 4.25		
Q30	8.24	4.78 <sup>a</sup>	2.49	C $\gamma$ H 1.83, 2.25 N $\epsilon$ H $_Z$ 6.26; N $\epsilon$ H $_E$ 7.82
S31	9.22	6.04	3.80, 3.96	
I32	9.59	4.73 <sup>a</sup>	1.73	C $\gamma$ H $_3$ 0.50; C $\gamma$ H 1.00, 1.48; C $\delta$ H $_3$ 0.61
V33	9.06	5.01	1.93	C $\gamma$ H $_3$ 0.89, 0.98
Y34	9.16	4.81 <sup>a</sup>	2.43, 2.49	C $_{(2, 6)}$ H 6.68; C $_{(3, 5)}$ H 6.45
K35	9.22	3.48	1.07, 1.57	C $\gamma$ H 0.14, 0.58; C $\delta$ H 1.27; C $\epsilon$ H 2.74

G36	8.07	3.44, 3.98		
N37	7.79	5.17	1.92, 2.61	N <sup>δ</sup> H <sub>Z</sub> 6.77; N <sup>δ</sup> H <sub>E</sub>
	7.26			
L38	8.32	4.74 <sup>a</sup>	1.44	C <sup>γ</sup> H 1.25; C <sup>δ</sup> H <sub>3</sub>
	0.68, 0.74			
Y39	9.18	5.46	2.52, 2.99	C <sub>(2, 6)</sub> H 6.75;
	C <sub>(3, 5)</sub> H 6.95			
T40	9.52	4.90	3.71	C <sup>γ</sup> H <sub>3</sub> 1.11
A41	8.12	4.01	0.91	
N42	8.94	4.58 <sup>a</sup>	1.20, 2.73	N <sup>δ</sup> H <sub>Z</sub> 6.30; N <sup>δ</sup> H <sub>E</sub>
	6.51			
W43	7.37	4.36	3.19, 3.72	N <sub>1</sub> H 10.08; C <sub>2</sub> H
	7.36;	C <sub>4</sub> H 7.15; C <sub>5</sub> H 6.95;	C <sub>6</sub> H 6.94; C <sub>7</sub> H 7.24	
Y44	8.00	4.38	2.69, 2.98	C <sub>(2, 6)</sub> H 6.72;
	C <sub>(3, 5)</sub> H 6.09			
T45	8.53	4.63 <sup>a</sup>	3.61	C <sup>γ</sup> H <sub>3</sub> 0.09
A46	8.39	3.97	0.99	
S47	8.54	4.63	3.92, 4.12	
V48	7.96	3.17	1.51	C <sup>γ</sup> H <sub>3</sub> 0.09, 0.90
P49		0.89	-0.27, 0.16	C <sup>γ</sup> H 0.36, 0.55;
	C <sup>δ</sup> H 0.98, 3.06			
G50	5.79	3.75, 3.83		
S51	7.99	4.18	3.50, 3.96	
D52	7.45	4.81	3.03, 3.32	
S53	8.44	4.49	4.13, 4.24	
S54	8.77	2.20	2.60, 3.46	
W55	7.13	5.11	2.86, 3.06	N <sub>1</sub> H 9.41; C <sub>2</sub> H
	6.87;	C <sub>4</sub> H 7.87; C <sub>5</sub> H 7.15;	C <sub>6</sub> H 6.88; C <sub>7</sub> H 7.20	
T56	9.29	4.59 <sup>a</sup>	4.01	C <sup>γ</sup> H <sub>3</sub> 1.18

Q57	9.38	4.12	1.97, 2.07	C $\gamma$ H 1.54, 1.82; N $\epsilon$ H $\zeta$ 6.66; N $\epsilon$ H $\xi$ 6.57
V58	8.89	4.20	1.93	C $\gamma$ H $_3$ 0.75, 0.86
G59	7.28	4.02, 4.18		
S60	8.55	5.05	3.84	
C61	8.49	4.82	2.45, 3.21	
N62	8.16	4.45	2.62, 2.73	N $\delta$ H $\zeta$ 6.77; N $\delta$ H $\xi$ 7.47

<sup>a</sup> Chemical shift values have been referenced to water taken at 4.7538 at 27°C and are accurate to  $\pm 0.02$  ppm.

<sup>b</sup> Value measured at 37°C.