

**Table 2.** Acquisition parameters for NMR experiments performed on Cu(I)-CopC

Experiments	Dimension of acquired data (nucleus)			Spectral width, ppm			N*	Ref
	t <sub>1</sub>	t <sub>2</sub>	t <sub>3</sub>	F <sub>1</sub>	F <sub>2</sub>	F <sub>3</sub>		
[ <sup>1</sup> H- <sup>1</sup> H]-NOESY	1024( <sup>1</sup> H)	2048( <sup>1</sup> H)		14	14		64	1
[ <sup>1</sup> H- <sup>1</sup> H]-TOCSY	1024( <sup>1</sup> H)	2048( <sup>1</sup> H)		14	14		32	2
<sup>1</sup> H- <sup>15</sup> N-HSQC	256( <sup>15</sup> N)	2048( <sup>1</sup> H)		40	7		16	3
<sup>1</sup> H- <sup>13</sup> C-HSQC	256( <sup>13</sup> C)	2048( <sup>1</sup> H)		70	14		16	4
HNCO	128( <sup>13</sup> C)	64( <sup>15</sup> N)	1024( <sup>1</sup> H)	20	41	14	8	4
Long-range HNCO	128( <sup>13</sup> C)	1024( <sup>1</sup> H)		20	14		1024	5
CBCA(CO)NH	128( <sup>13</sup> C)	64( <sup>15</sup> N)	1024( <sup>1</sup> H)	70	40	14	16	6
CBCANH	128( <sup>13</sup> C)	64( <sup>15</sup> N)	1024( <sup>1</sup> H)	70	40	14	16	7
<sup>13</sup> C (H)CCH-TOCSY	256( <sup>1</sup> H)	128( <sup>13</sup> C)	1024( <sup>1</sup> H)	14	70	14	8	8
<sup>15</sup> N-edited [ <sup>1</sup> H- <sup>1</sup> H]-NOESY	256( <sup>1</sup> H)	64( <sup>15</sup> N)	1024( <sup>1</sup> H)	14	41	7	16	9–11
<sup>13</sup> C-edited [ <sup>1</sup> H- <sup>1</sup> H]-NOESY	256( <sup>1</sup> H)	128( <sup>13</sup> C)	1024( <sup>1</sup> H)	14	71	14	16	9–11
HNHA	144( <sup>1</sup> H)	128( <sup>15</sup> N)	1024( <sup>1</sup> H)	14	41	7	32	12
HNHB	144( <sup>1</sup> H)	128( <sup>15</sup> N)	1024( <sup>1</sup> H)	14	41	7	32	13

For triple resonance experiments, quadrature detection in the indirect dimensions was performed in the Echo/Antiecho-TPPI mode (14). For 2D experiments, quadrature detection in the indirect dimension was performed in the TPPI mode (14), and water suppression was achieved through WATERGATE sequence (15).

\*, Number of acquired scans.

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