

SUPPLEMENTARY MATERIAL

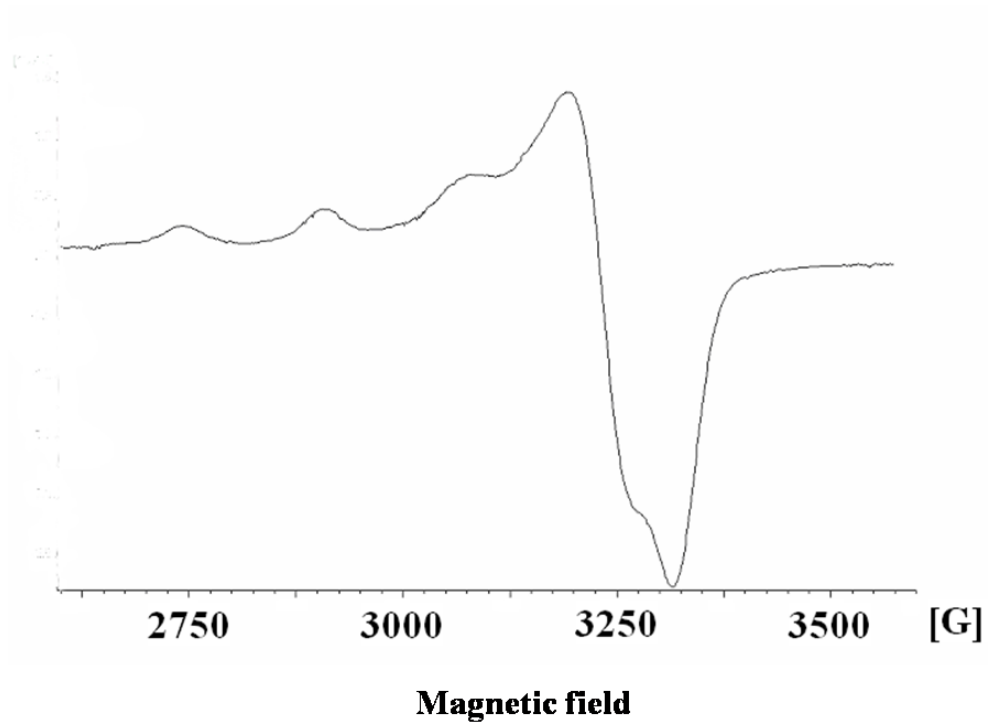


Figure 1S. Low-temperature EPR spectrum of Cu-RTN1C10_{CT} complex, 1:1 Cu/peptide molar ratio, in 50 mM HEPES, pH 7.11, buffer.

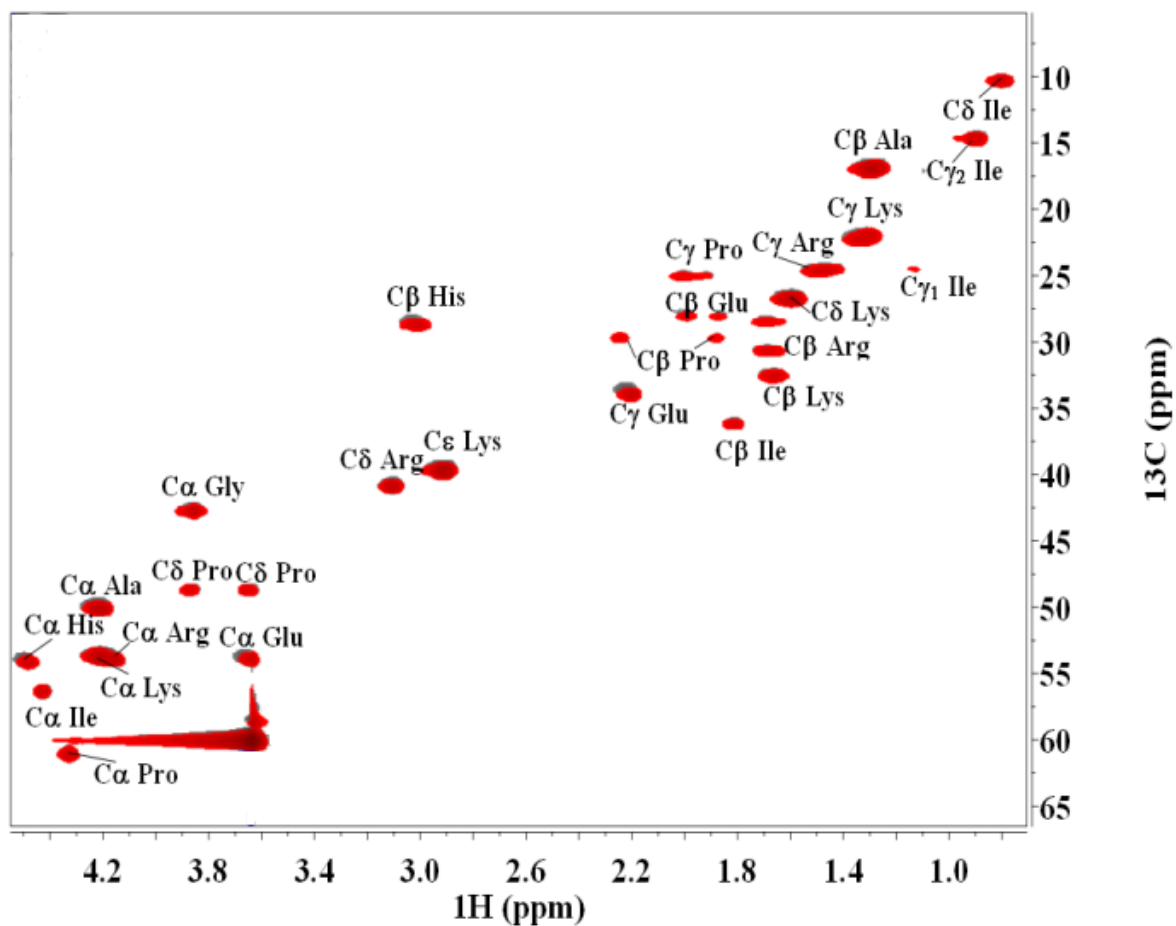


Figure 2S. Overlay of the aliphatic region of 2D ¹H-¹³C HSQC spectra of RTN1-C10_{CT} (black) and Zn²⁺-RTN1-C10_{CT} (red) complex (1:1 c/c) at pH 7.3.

Table 1S. Chemical shifts of ^1H resonances of RTN1-C10_{CT} peptide.

RTN1-C10 _{CT}					
Residue	Hydrogen	$\Delta\delta$ (ppm)	Residue	Hydrogen	$\Delta\delta$ (ppm)
K	H α	4.21	K	H δ 1	1.58
K	H β 1	1.66	K	H δ 2	1.58
K	H β 2	1.66	K	H ϵ 1	2.89
K	H γ 1	1.32	K	H ϵ 2	2.89
K	H γ 2	1.,32	K	H ζ	nd
K	H δ 1	1.58	R	H α	4.19
K	H δ 2	1.58	R	H β 1	1.65
K	H ϵ 1	2:89	R	H β 2	1.65
K	H ϵ 2	2.89	R	H γ 1	1.46
K	H ζ	nd	R	H γ 2	1.46
I	H α	4.42	R	H δ 1	3.10
I	H β	1.79	R	H δ 2	3.10
I	H γ 1-1	1.10	R	H ϵ	nd
I	H γ 1-2	1.41	R	HH1-1	nd
I	H γ 2	0.89	R	HH1-2	nd
I	H δ 1	0.78	R	HH2-1	nd
P	H α	4.32	R	HH2-2	nd
P	H β 1	1.87	H	H α	4.48
P	H β 2	2.24	H	H β 1	299
P	H γ 1	1.91	H	H β 2	2.99
P	H γ 2	2.,00	H	H δ 1	nd
P	H δ 1	3.86	H	H δ 2	6.91
P	H δ 2	3.65	H	H ϵ 1	7.68
G	H α 1	3.86	H	H ϵ 2	nd
G	H α 2	3.86	A	H α	4.20
A	H α	4.20	A	H β	1.28
A	H β	1.28	E	H α	3.65
K	H α	4.21	E	H β 1	1.87
K	H β 1	1.66	E	H β 2	1.99
K	H β 2	1.66	E	H γ 1	2.19
K	H γ 1	1.32	E	H γ 2	2.19
K	H γ 2	1.32			

Table 2S . Chemical shifts of ^{13}C resonances of RTN1-C10_{CT}.

Residue	RTN1-C10 _{CT}	
	Carbon	$\Delta\delta$ (ppm)
K	C α	53.65
K	C β	32.61
K	C γ	22.33
K	C δ	26.93
K	C ϵ	39.73
I	C α	56.35
I	C β	36.25
I	C γ 1	24.64
I	C γ 2	14.80
I	C δ	10.46
P	C α	61.13
P	C β	48.77
P	C γ	25.09
G	C α	42.75
A	C α	50.14
A	C β	16.97
K	C α	53.65
K	C β	32.61
K	C γ	22.33
K	C δ	26.93
K	C ϵ	39.73
R	C α	54.01
R	C β	30.73
R	C γ	24.61
R	C δ	40.93
H	C α	54.17
H	C β	28.77
H	C δ 2	136.12
H	C ϵ 1	117.53
A	C α	50.14
A	C β	16.97
E	C α	53.93
E	C β	28.13
E	C γ	34.02

Table 3S. ^{13}C chemical shifts resonances of RTN1-C10_{CT} alone and in the presence of Zn^{2+} (1:1 molar ratio)

Residue	RTN1-C10 _{CT}		RTN1-C10 _{CT} : Zn^{2+} (1:1c/c)		
	C	ppm (δ_f)	C	ppm	$\Delta\delta$
H	C α	54.17	C α	53.95	-0.22
H	C β	28.77	C β	28.45	-0.32
H	C δ	117.53	C δ	118.02	0.49
E	C α	53.93	C α	53.76	-0.17
E	C β	28.13	C β	27.93	-0.20
E	C γ	34.02	C γ	33.71	-0.31