

Electronic supplementary information

Piperazine linked Salicylaldoxime and Salicylaldimine-based dicopper(II) receptors for anions

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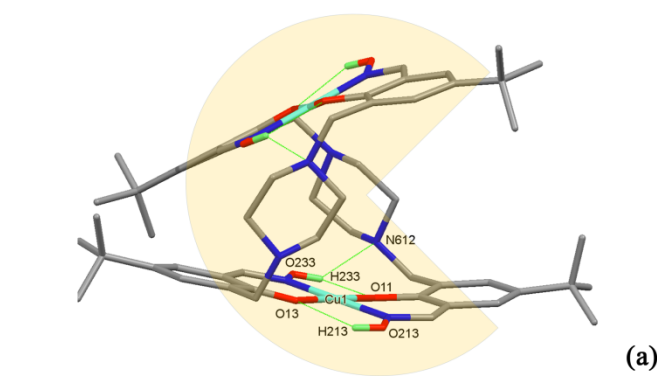


Figure S1 Showing the *Pacman*-like cleft formed in complex **1**.

Table S1 Selected H-bond distances and angles for complexes **1** and **2**.

Atoms (D⋯A)	H-bond distance (Å)	D–H⋯A angle (°)
1		
O213–H213⋯O13	2.812(4)	130.00
O233–H233⋯O11	2.657(4)	132.00
O223–H223⋯N642	2.944(16)	140.00
O233–H233⋯N612	2.927(16)	136.00
O223–H223⋯O14	2.677(4)	131.00
O243–H243⋯O12	2.658(4)	131.00
N632–H632⋯F13	2.827(4)	158.00
N632–H632⋯F14	2.980(4)	133.00
2		
O223–H223⋯N642	2.975(6)	144.00
O233–H233⋯N612	2.926(7)	140.00
N632–H632⋯Br2	3.200(4)	167.00
O243–H243⋯O12	2.627(5)	133.00
O223–H223⋯O14	2.670(6)	132.00

Table S2 Selected H-bond distances and angles for complexes **3-5**.

Atoms (D-H...A)	H-bond distance (Å)	D-H...A angle (°)
3		
N612-H61G...F34	2.763(7)	166.00
N622-H62G...O44A	2.722(6)	159.00
N632-H63G...F24	2.637(12)	169.00
N642-H64G...O44	2.747(6)	162.00
4		
N612-H612...Br1	3.424(5)	151.00
N612-H612...O11	2.987(5)	119.00
N622-H622...Br2	3.181(4)	173.00
N632-H632...Br3	3.226(4)	169.00
N642-H642...O100	2.741(7)	160.00
5		
O213-H213...O3	2.670(5)	134.00
O223-H223...O6	2.807(5)	132.00
O223-H223...N662	2.851(6)	141.00
O243-H243...O5	2.636(6)	135.00
O263-H263...N622	2.856(6)	144.00
O253-H253...O4	2.660(5)	135.00
O233-H233...O1	2.687(7)	135.00
O263-H263...O2	2.833(5)	130.00

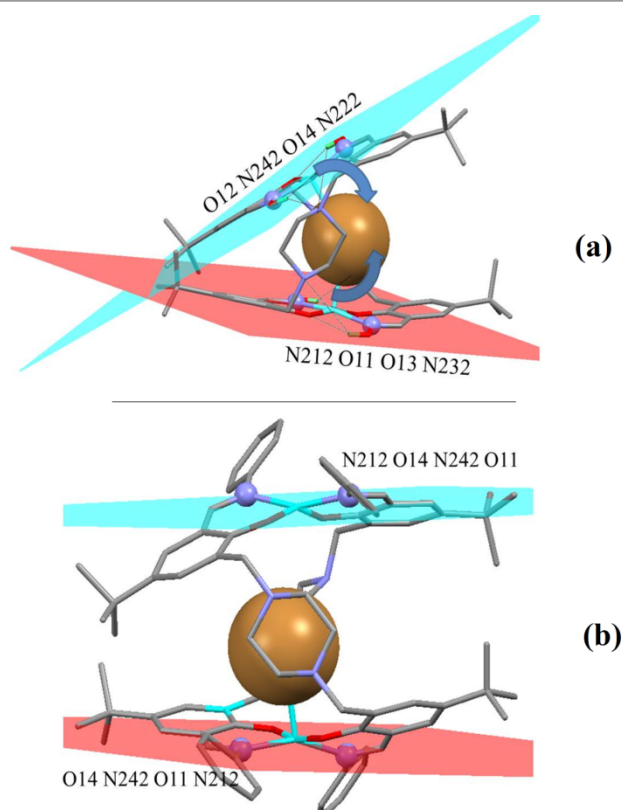


Figure S2. (a) The comparatively smaller Cu...Cu distance enables both the metal centres to coordinate to bromide anion of the complex **2** (b) The larger Cu...Cu distance restricts coordination of bromide ion only to one metal centre of the complex **4**.