Inorganic Chemistry
including bioinorganic chemistry
Inorg. Chem., 1997, 36(25), 5969-5971, DOI:10.1021/ic970416m

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Table S1. Crystal data and structure refinement for [Pt(*cis*-1,4-DACH)*trans*-Cl_2(CBDCA)].

Empirical formula	$C_{12.50}H_{22}Cl_2N_2O_{4.50}Pt$
Formula weight	538.31
Temperature	223(2) K
Wavelength	0.71073 Å
Crystal system	Orthorhombic
Space group	P bcn (#60)
Unit cell dimensions	
a	11.320(2) Å,
b	17.361(3) Å,
c	17.589(4) Å.
Volume	3456.7(12)$Å^3$
Z	8
Density (calculated)	2.069g/cm^3
Absorption coefficient	8.447mm^{-1}
F(000)	2072
Crystal size	0.40 x 0.30 x 0.30 mm
θ range for data collection	2.15 to 22.50 deg.
Index ranges	$0 \le h \le 12$, $0 \le k \le 19$, $0 \le l \le 20$
Reflections collected	2266
Independent reflections	2266 [R(int) = 0.0000]
Absorption correction	Semi-empirical from Ψscans
Max. and min. transmission	1.0 and 0.5216
Refinement method	Full-matrix least-squares on F^2
Data / restraints / parameters	2234 / 28 / 209
Goodness-of-fit on F^2	1.020
Final R indices [$I>2\sigma(I)$]	R1 = 0.0470, wR2 = 0.1148
R indices (all data)	R1 = 0.1018, wR2 = 0.1423
Largest diff. peak and hole	1.956 and -0.806 e.$Å^{-3}$

Table S2. Bond lengths [Å] and angles [°] for [Pt(*cis*-1,4-DACH)*trans*-Cl_2(CBDCA)].

Pt(1)- O(1)	1.987(11)	Pt(1)- O(3)	1.993(10)
Pt(1)- N(1)	2.019(12)	Pt(1)- N(2)	2.026(14)
Pt(1)- Cl(1)	2.301(5)	Pt(1)- Cl(2)	2.313(5)
N(1)- C(6)	1.50(2)	N(2)- C(3)	1.49(2)
C(1)- C(6)	1.51(3)	C(1)- C(2)	1.53(3)
C(2)- C(3)	1.47(3)	C(3)- C(4)	1.53(2)
C(4)- C(5)	1.54(3)	C(5)- C(6)	1.45(3)
O(1)- C(10)	1.28(2)	O(2)- C(10)	1.22(2)
O(3)- C(12)	1.29(2)	O(4)- C(12)	1.24(2)
C(10)- C(11)	1.52(2)	C(11)- C(12)	1.52(2)
C(11)- C(13)	1.54(2)	C(11)- C(15)	1.54(2)
C(13)- C(14A)	1.54(2)	C(13)- C(14B)	1.55(2)
C(14A)- C(14B)	0.93(6)	C(14A)- C(15)	1.51(2)
C(14B)- C(15)	1.53(2)	O(100)- C(101)	1.28(3)
O(1)- Pt(1)- O(3)	95.8(4)	O(1)- Pt(1)- N(1)	82.3(5)
O(3)- Pt(1)- N(1)	178.0(5)	O(1)- Pt(1)- N(2)	177.4(5)
O(3)- Pt(1)- N(2)	83.4(5)	N(1)- Pt(1)- N(2)	98.5(5)
O(1)- Pt(1)- Cl(1)	93.4(3)	O(3)- Pt(1)- Cl(1)	91.4(4)
N(1)- Pt(1)- Cl(1)	89.4(4)	N(2)- Pt(1)- Cl(1)	89.1(5)
O(1)- Pt(1)- Cl(2)	87.0(3)	O(3)- Pt(1)- Cl(2)	86.2(4)
N(1)- Pt(1)- Cl(2)	93.0(4)	N(2)- Pt(1)- Cl(2)	90.5(5)
Cl(1)- Pt(1)- Cl(2)	177.6(2)	C(6)- N(1)- Pt(1)	126.3(11)
C(3)- N(2)- Pt(1)	126.9(12)	C(6)- C(1)- C(2)	112(2)
C(3)- C(2)- C(1)	120(2)	C(2)- C(3)- N(2)	111(2)
C(2)- C(3)- C(4)	112(2)	N(2)- C(3)- C(4)	111(2)
C(3)- C(4)- C(5)	112(2)	C(6)- C(5)- C(4)	120(2)
C(5)- C(6)- N(1)	113(2)	C(5)- C(6)- C(1)	112(2)
N(1)- C(6)- C(1)	110(2)	C(10)- O(1)- Pt(1)	123.1(10)
C(12)- O(3)- Pt(1)	121.7(10)	O(2)- C(10)- O(1)	120(2)
O(2)- C(10)- C(11)	119(2)	O(1)- C(10)- C(11)	120(2)
C(10)- C(11)- C(12)	112.6(14)	C(10)- C(11)- C(13)	111.2(13)
C(12)- C(11)- C(13)	113.0(14)	C(10)- C(11)- C(15)	115.6(14)
C(12)- C(11)- C(15)	114.8(13)	C(13)- C(11)- C(15)	87.2(11)
O(4)- C(12)- O(3)	118(2)	O(4)- C(12)- C(11)	121(2)
O(3)- C(12)- C(11)	121.0(14)	C(14A)- C(13)- C(11)	89.6(13)
C(14A)- C(13)- C(14B)	35(2)	C(11)- C(13)- C(14B)	88.4(14)
C(14B)- C(14A)- C(15)	74(2)	C(14B)- C(14A)- C(13)	73(2)
C(15)- C(14A)- C(13)	88.8(13)	C(14A)- C(14B)- C(15)	71(2)
C(14A)- C(14B)- C(13)	72(2)	C(15)- C(14B)- C(13)	88(2)
C(14A)- C(15)- C(14B)	36(2)	C(14A)- C(15)- C(11)	90.7(13)
C(14B)- C(15)- C(11)	89.0(14)		

Table S3. Anisotropic displacement parameters (A^2) for [Pt(*cis*-1,4-DACH)*trans*-Cl_2(CBDCA)]. The anisotropic displacement factor exponent takes the form: -2x2¶^{2}[h^2a^{*2} U11 +...+ 2hka* b$^*U_{12}$]

Atom	U11	U22	U33	U23	U13	U12
Pt(1)	0.0299(4)	0.0592(4)	0.0524(4)	0.0083(3)	-0.0003(3)	-0.0011(4)
Cl(1)	0.077(3)	0.071(3)	0.066(3)	-0.006(2)	0.005(2)	0.000(3)
Cl(2)	0.069(3)	0.079(4)	0.075(3)	-0.004(3)	0.008(3)	0.015(3)
N(1)	0.034(7)	0.088(12)	0.059(9)	0.004(9)	0.006(7)	0.004(8)
N(2)	0.042(8)	0.101(14)	0.083(11)	0.004(10)	0.008(8)	-0.009(9)
C(1)	0.068(10)	0.109(14)	0.15(2)	0.08(2)	-0.015(14)	-0.01(2)
C(2)	0.067(8)	0.115(13)	0.063(12)	0.032(13)	0.015(10)	0.012(13)
C(3)	0.059(9)	0.115(12)	0.056(11)	0.035(12)	0.007(9)	0.022(13)
C(4)	0.082(10)	0.13(2)	0.034(9)	0.010(11)	-0.005(10)	0.010(14)
C(5)	0.063(9)	0.18(2)	0.060(11)	0.03(2)	0.016(10)	0.03(2)
C(6)	0.062(9)	0.13(2)	0.083(12)	0.056(14)	-0.012(11)	-0.005(14)
O(1)	0.035(6)	0.058(8)	0.065(7)	0.009(7)	0.005(5)	-0.001(6)
O(2)	0.051(7)	0.098(11)	0.068(8)	0.005(7)	-0.004(6)	-0.017(7)
O(3)	0.053(7)	0.069(8)	0.052(7)	0.022(7)	-0.002(6)	-0.003(6)
O(4)	0.063(9)	0.108(12)	0.083(9)	0.034(9)	0.005(8)	-0.012(8)
C(10)	0.011(7)	0.10(2)	0.054(11)	-0.009(11)	0.002(8)	0.008(9)
C(11)	0.043(10)	0.061(12)	0.050(10)	-0.010(9)	0.002(8)	0.015(9)
C(12)	0.052(11)	0.08(2)	0.050(11)	0.015(10)	0.015(9)	-0.028(10)
C(13)	0.053(10)	0.069(13)	0.062(11)	-0.013(10)	-0.004(9)	-0.012(10)
C(14A)	0.07(2)	0.08(2)	0.09(2)	-0.01(2)	-0.02(2)	0.02(2)
C(14B)	0.07(2)	0.08(2)	0.09(2)	-0.01(2)	-0.02(2)	0.02(2)
C(15)	0.068(11)	0.08(2)	0.046(10)	0.013(10)	-0.010(9)	0.005(11)
O(100)	0.06(2)	0.07(2)	0.11(3)	-0.04(2)	0.02(2)	0.008(14)
C(101)	0.10(3)	0.11(3)	0.22(5)	0.000	-0.06(3)	0.000

Table S4. Hydrogen coordinates and isotropic displacement parameters (Å²) for [Pt(*cis*-1,4-DACH)*trans*-Cl_2(CBDCA)].

Atom	x	y	z	U(eq)
H(21A)	0.3917(10)	0.7661(8)	0.1981(7)	0.080
H(21B)	0.4201(10)	0.6995(8)	0.1514(7)	0.080
H(22A)	0.0829(12)	0.6317(10)	0.1415(9)	0.080
H(22B)	0.0420(12)	0.6972(10)	0.1859(9)	0.080
H(1A)	0.251(2)	0.8543(13)	0.167(2)	0.080
H(1B)	0.253(2)	0.8854(13)	0.083(2)	0.080
H(2A)	0.070(2)	0.8233(12)	0.1469(11)	0.080
H(2B)	0.081(2)	0.8390(12)	0.0600(11)	0.080
H(3)	0.014(2)	0.7244(12)	0.0650(10)	0.080
H(4A)	0.145(2)	0.7091(13)	-0.0257(9)	0.080
H(4B)	0.184(2)	0.6422(13)	0.0288(9)	0.080
H(5A)	0.359(2)	0.692(2)	0.0270(11)	0.080
H(5B)	0.313(2)	0.765(2)	-0.0156(11)	0.080
H(6)	0.405(2)	0.8077(14)	0.0818(12)	0.080
H(13A)	0.4018(14)	0.4962(9)	0.3017(9)	0.080
H(13B)	0.2706(14)	0.4618(9)	0.3052(9)	0.080
H(14A)	0.360(3)	0.404(2)	0.4214(12)	0.080
H(14B)	0.460(3)	0.469(2)	0.4146(12)	0.080
H(14C)	0.226(6)	0.413(2)	0.406(2)	0.080
H(14D)	0.365(6)	0.410(2)	0.419(2)	0.080
H(15A)	0.358(2)	0.5432(10)	0.4842(8)	0.080
H(15B)	0.231(2)	0.5050(10)	0.4742(8)	0.080
H(100)	0.56(3)	0.8542(14)	0.186(12)	0.080
H(10A)	0.4317	0.918(2)	0.2832	0.080
H(10B)	0.4836	0.953(2)	0.2072	0.080
H(10C)	0.5675	0.939(2)	0.2779	0.080

Table S5. Atomic coordinates and equivalent isotropic displacement parameters (Å²) for [Pt(*cis*-1,4-DACH)*trans*-Cl_2(CBDCA)]. U(eq) is defined as one third of the trace of the orthogonalized Uij tensor.

Atom	x	y	z	U(eq)
Pt(1)	0.24419(4)	0.66869(4)	0.22457(3)	0.0472(3)
Cl(1)	0.2993(5)	0.5616(3)	0.1562(3)	0.0713(14)
Cl(2)	0.1833(4)	0.7732(3)	0.2961(3)	0.0744(14)
N(1)	0.3605(10)	0.7322(8)	0.1642(7)	0.060(4)
N(2)	0.1020(12)	0.6806(10)	0.1556(9)	0.075(5)
C(1)	0.241(2)	0.8398(13)	0.114(2)	0.109(7)
C(2)	0.115(2)	0.8100(12)	0.1019(11)	0.081(5)
C(3)	0.094(2)	0.7281(12)	0.0850(10)	0.077(5)
C(4)	0.178(2)	0.6977(13)	0.0239(9)	0.080(5)
C(5)	0.301(2)	0.734(2)	0.0294(11)	0.102(6)
C(6)	0.333(2)	0.7798(14)	0.0951(12)	0.091(5)
O(1)	0.3802(8)	0.6602(7)	0.2955(6)	0.053(3)
O(2)	0.4426(10)	0.6461(8)	0.4111(7)	0.072(4)
O(3)	0.1330(9)	0.6066(7)	0.2875(6)	0.058(3)
O(4)	0.0801(11)	0.5690(8)	0.3998(7)	0.085(4)
C(10)	0.3727(12)	0.6288(12)	0.3610(10)	0.054(5)
C(11)	0.2885(14)	0.5619(9)	0.3737(8)	0.051(5)
C(12)	0.162(2)	0.5822(11)	0.3544(10)	0.060(5)
C(13)	0.3321(14)	0.4886(9)	0.3330(9)	0.061(5)
C(14A)	0.377(3)	0.457(2)	0.4094(12)	0.082(10)
C(14B)	0.298(6)	0.442(2)	0.405(2)	0.082(10)
C(15)	0.305(2)	0.5178(10)	0.4492(8)	0.066(5)
O(100)	0.523(2)	0.8514(14)	0.226(2)	0.078(9)
C(101)	0.5000	0.919(2)	0.2500	0.14(2)

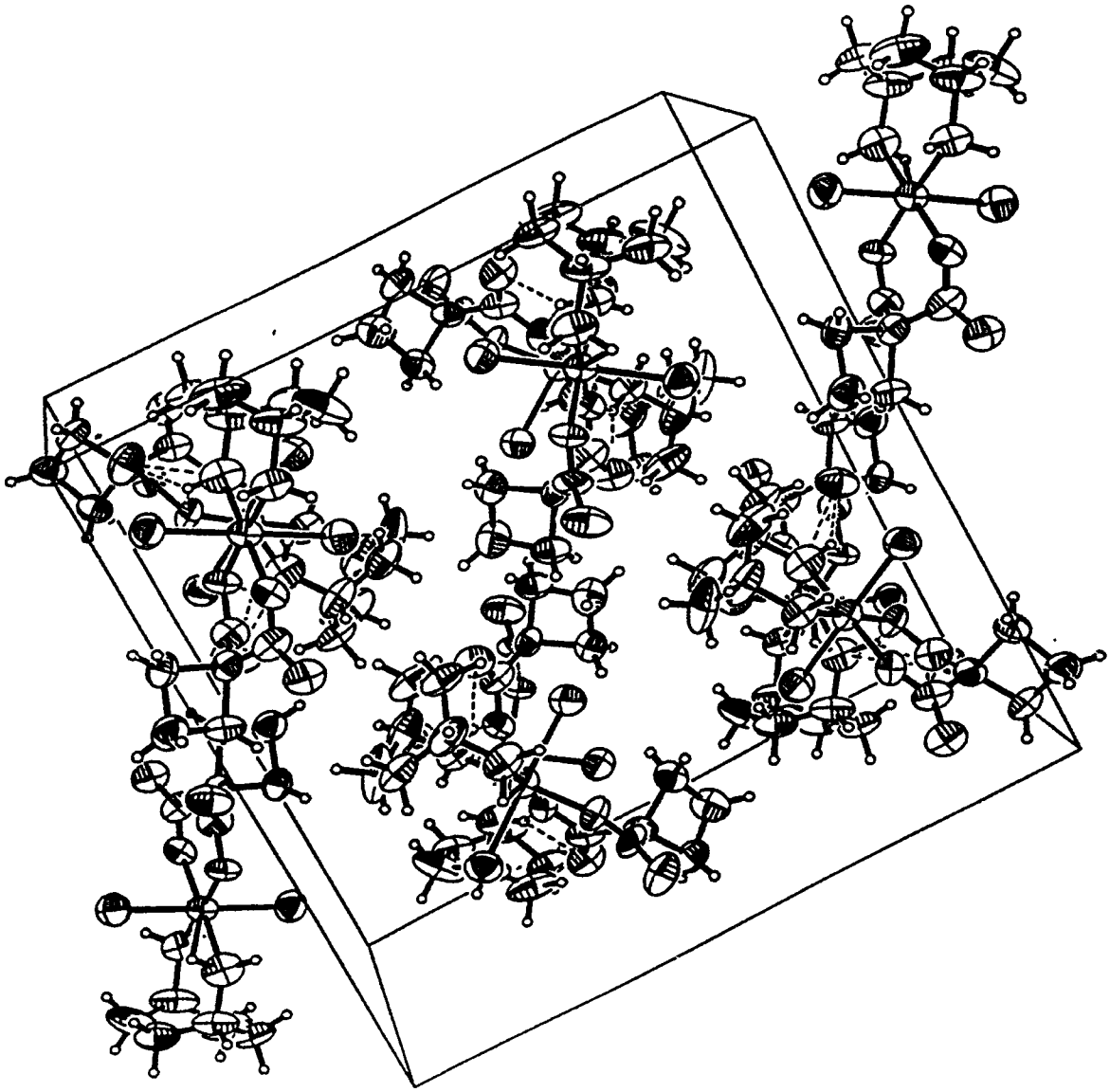

Figure S1. [Pt(1,4-DACH)*trans*-Cl_2(CBDCA)] packing in the unit cell