Electronic Supplementary Material (ESI) for Dalton Transactions

Supporting Information for

Tetraplatinum Cluster Complexes Bearing Hydrophilic Anchors as Precursors for g-Al_2O_3-Supported Platinum Nanoparticles

Shinji Tanaka,[a] Naoto Nagata,[b] Naoki Tagawa,[a] Hirohito Hirata,[b] Shin-ichi Matsumoto,[b] Hayato Tsurugi[a] and Kazushi Mashima[a]*

[a] *Department of Chemistry, Graduate School of Engineering Science, Osaka University, and CREST, JST, Toyonaka, Osaka 560-8531, Japan*

[b] *Toyota Motor Corporation, 1 Toyota-cho, Toyota, Aichi 471-8572, Japan*

Contents:

Table S1. Crystallographic Data of **2a**[a,b]

complex	**2a**
empirical formula	$C_{36}H_{32}O_{20}Pt_4 \cdot H_2O \cdot 1.75(Et_2O)$
formula weight	1710.71
temperature, K	113(1)
cryst. System	monoclinic
space group	*Cc* (#9)
a, Å	30.106(3)
b, Å	9.3586(8)
c, Å	23.564(2)
α, deg	-
β, deg	128.220(2)
γ, deg	-
volume, Å^3	5216.0(8)
Z	4
calculated density, Mg m^{-3}	2.178
$2\theta_{max}$, deg	54.8
limiting indices	$-38 \le h \le 38$, $-12 \le k \le 12$, $-30 \le l \le 30$
absorption coefficient, mm^{-1}	10.792
F(000)	3206.00
crystal size, mm	0.280 x 0.210 x 0.050
goodness-of-fit on F^2	1.155
reflections collected / unique	39354 / 10880 [R(int) = 0.0686]
no. of variables	615
$R1$ [$I > 2\sigma(I)$]	0.0390
$R1$, $wR2$ (all data)	0.0609, 0.1041
residual electron density, e Å^{-3}	1.770 (max), -1.740 (min)

[a] $R1 = (\Sigma||Fo| - |Fc||) / \Sigma|Fo|$. [b] $wR2 = [\Sigma w(Fo^2-Fc^2)^2 / \Sigma(wFo^4)]^{1/2}$; The function minimized: $w(Fo^2 - Fc^2)^2$.