Cationic, linear Au(I) N-heterocyclic carbene complexes: synthesis, structure and anti-mitochondrial activity

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Fig. S1 (a) The centrosymmetric $[(Me,Et-Im)_2Au]^+$ cation in **2.PF**₆; (b) The centrosymmetric $[(i-Pr_2Im)_2Au]^+$ cation in **3.CI**; (c) The $[(Cy_2Im)_2Au]^+$ cation in **6.PF**₆ (2-symmetry).

Fig. S2 (a) The three cations of $[(n-Bu_2Im)_2Au]^+$ in **4.PF**₆; cations 1 and 2 are centrosymmetric. (b) Unit cell contents of $[(n-Bu_2Im)_2Au][PF_6]$ (**4.PF**₆) projected down a.

Table S1. Microanalysis results for hexafluorophosphate salts.

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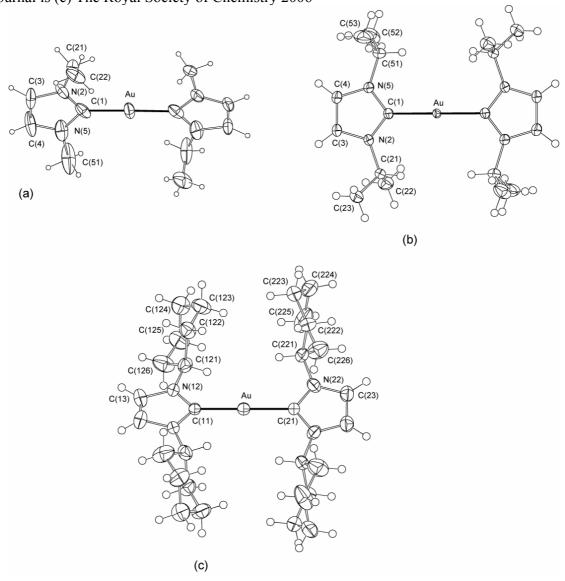


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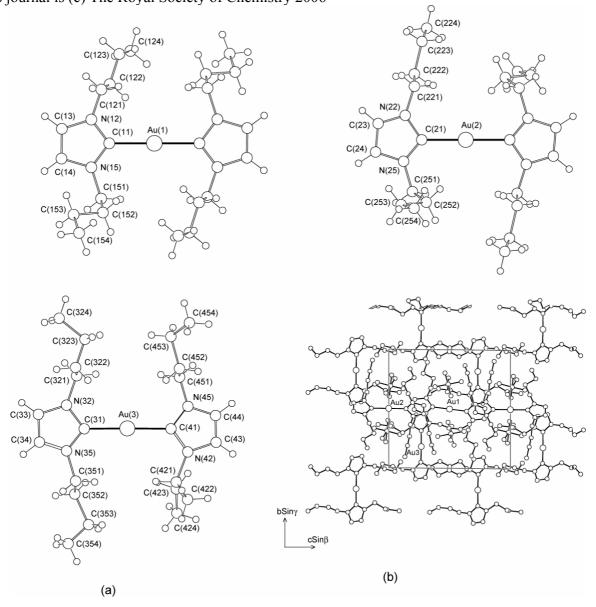


Fig. S2 (a) The three cations of $[(n-Bu_2Im)_2Au]^+$ in **4.PF**₆; cations 1 and 2 (top two structures in Figure) are centrosymmetric. (b) Unit cell contents of $[(n-Bu_2Im)_2Au][PF_6]$ (**4.PF**₆) projected down *a*.

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Table S1. Microanalysis results for hexafluorophosphate salts.

	Formula	Found			Calculated		
		C	Н	N	С	Н	N
1.PF ₆	$C_{10}H_{16}N_4AuPF_6$	22.09	2.71	10.22	22.48	3.02	10.49
3.PF ₆	$C_{18}H_{32}N_4AuPF_6$	33.56	5.03	8.61	33.45	4.99	8.67
4.PF ₆	$C_{22}H_{40}N_4AuPF_6$	37.50	5.89	7.78	37.61	5.74	7.98
5.PF ₆	C ₂₂ H ₄₀ N ₄ AuPF ₆ .EtOH	38.95	6.03	7.66	38.50	6.19	7.48
6.PF ₆	$C_{30}H_{48}N_4AuPF_6$	45.22	6.34	6.78	45.08	6.11	6.87