Supporting Information

for

Synthesis of chiral mono(N-heterocyclic carbene) palladium and gold complexes with a 1,1'-biphenyl scaffold and their applications in catalysis

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Crystal structure data for NHC–Au(I) complex 6a
The crystal data of 6a have been deposited in CCDC with number 782844. Empirical Formula: C_{24}H_{23}AuIN_3O_3; Formula Weight: 725.32; Crystal Color, Habit: colorless, prismatic; Crystal Dimensions: 0.277 x 0.268 x 0.224 mm; Crystal System: Monoclinic; Lattice Type: Primitive; Lattice Parameters: a = 9.2786(7)Å, b = 25.5371(19)Å, c = 10.1633(7)Å, α = 90°, β = 104.9480(10)°, γ = 90°, V = 2326.7(3)Å³; Space group: P2(1); Z = 4; D_{calc} = 2.071 g/cm³; F_{000} = 1376; Diffractometer: Rigaku AFC7R; Residuals: R; Rw: 0.0478, 0.1273.