

Supporting Information

Unprecedented Long Range 1,7-Bromination in Gold Complexes of *N*- (Aryl)imino Functionalized N-heterocyclic Carbenes

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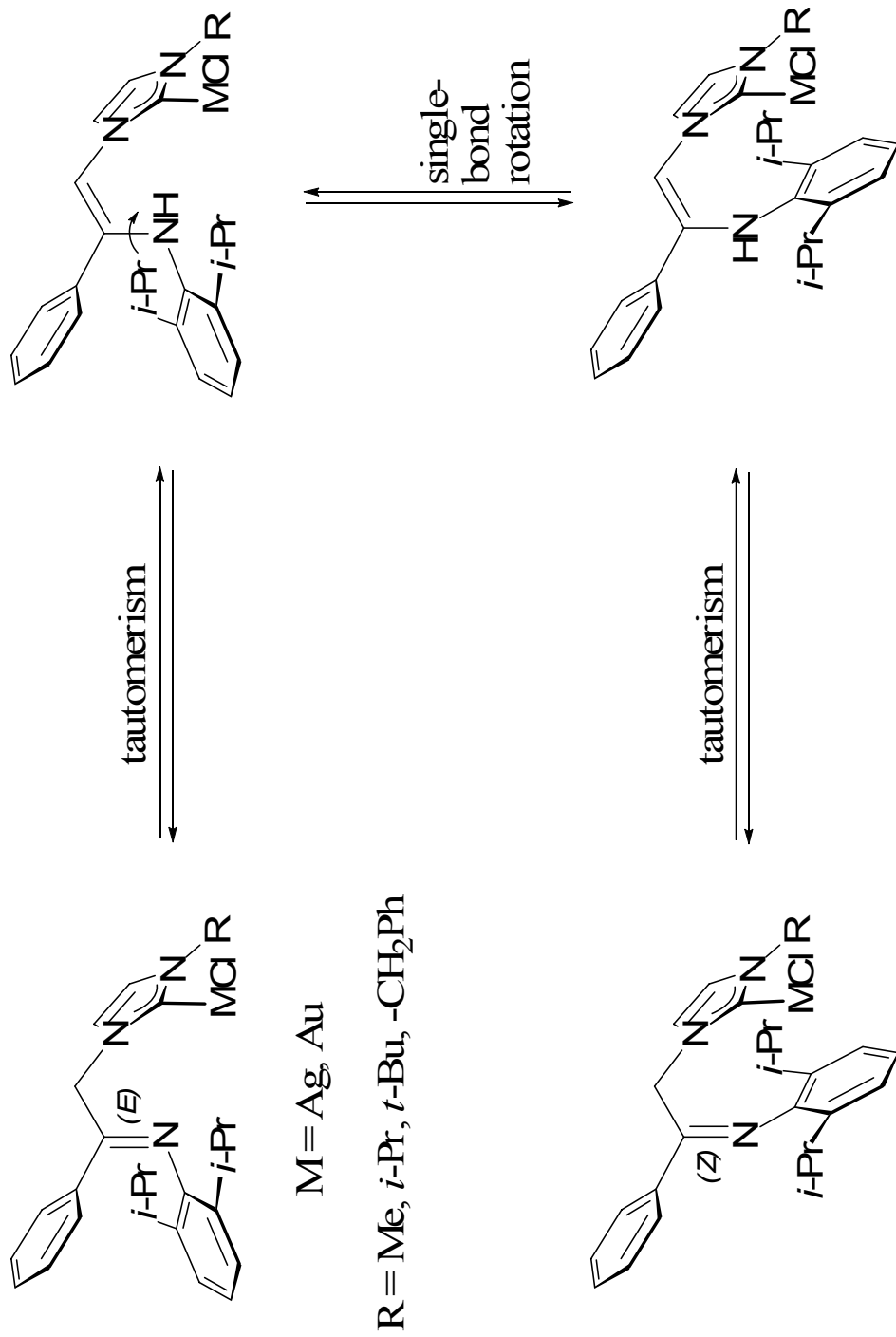
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Scheme S1.

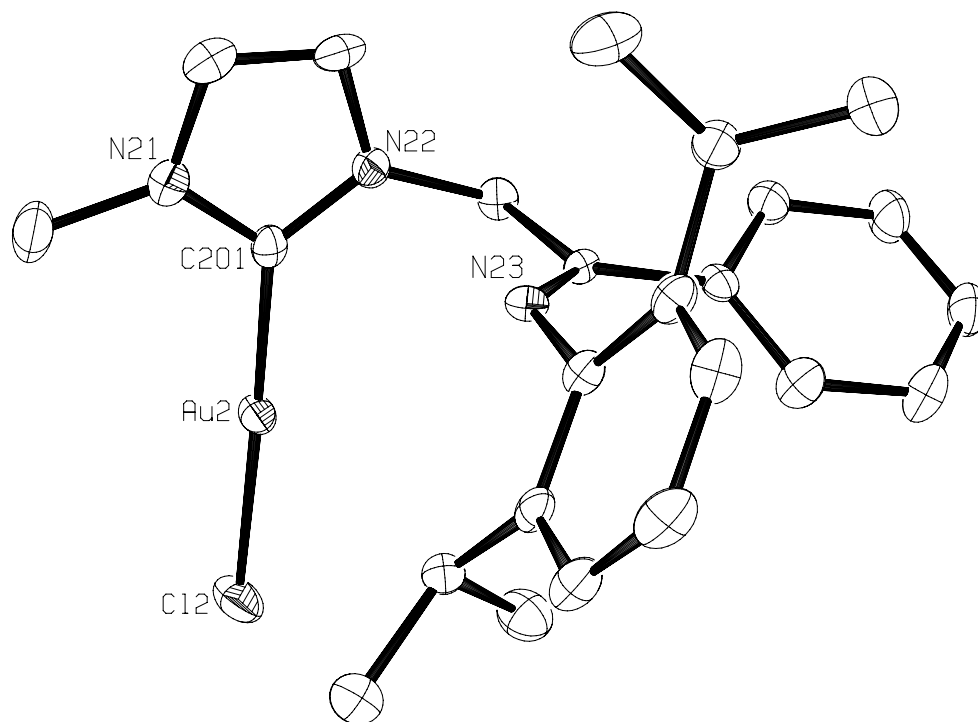


Figure S1. ORTEP of **1c** with thermal ellipsoids drawn at 50 % probability level. Selected bond lengths (Å) and angles (°): N21-C201 1.357(8), N22-C201 1.346(8), Au2-C201 1.978(7), Au2-Cl2 2.286(2), C201-Au2-Cl2 178.3(2).

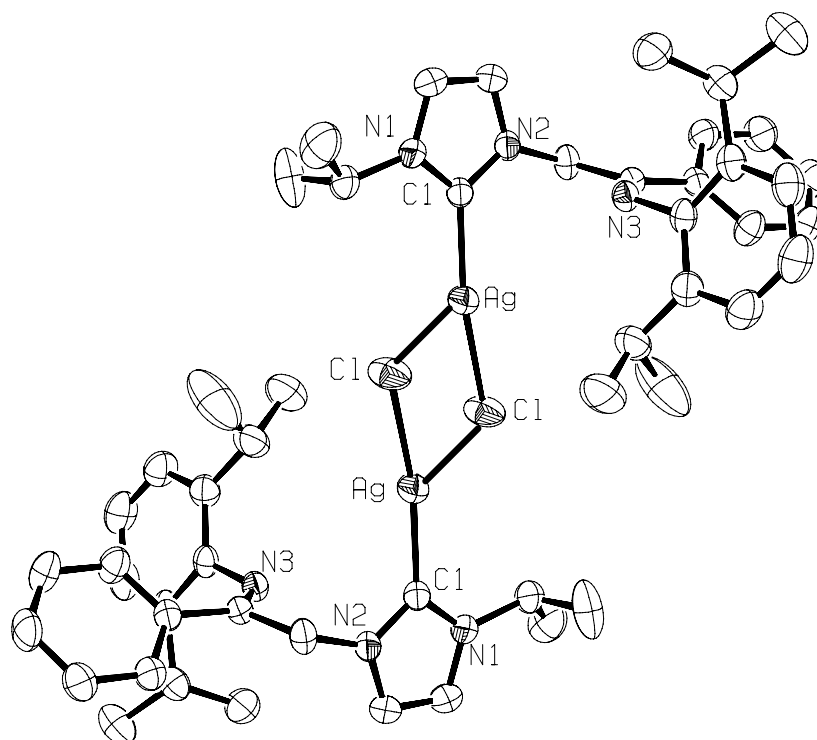


Figure S2. ORTEP of **2b** with thermal ellipsoids drawn at 50 % probability level. Selected bond lengths (Å) and angles (°): Ag-C1 2.086(2), N1-C1 1.351(2), N2-C1 1.356(2), C1-Ag-C11 165.02(5), N1-C1-N2 103.9(1), N2-C1-Ag 127.3 (1), N1-C1-Ag 128.6(1).

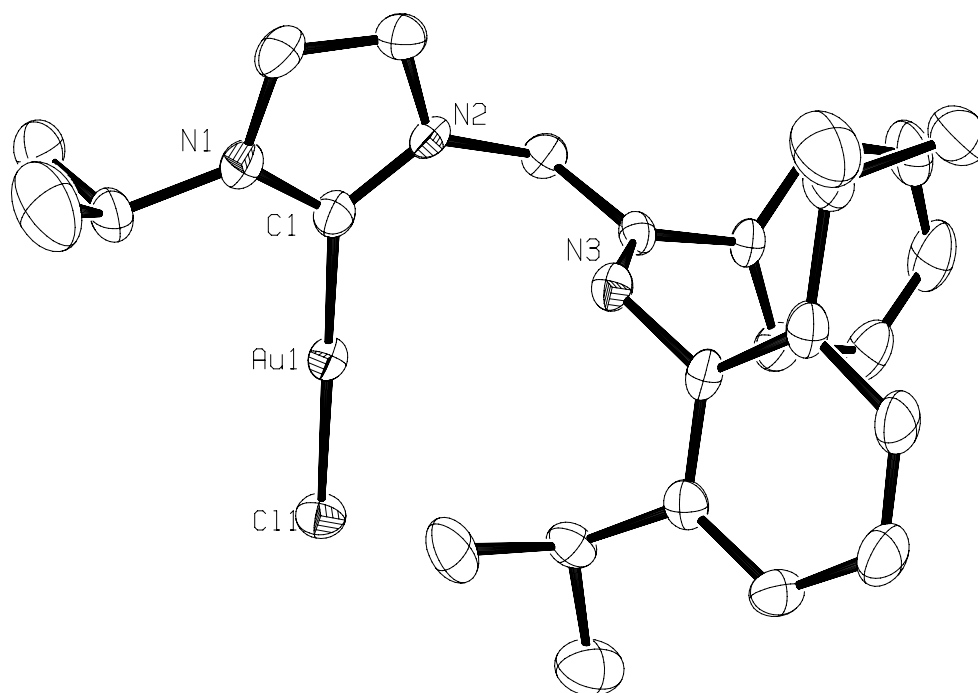


Figure S3. ORTEP of **2c** with thermal ellipsoids drawn at 50 % probability level. Selected bond lengths (Å) and angles (°): Au1-C1 1.972(4), N1-C1 1.352(2), N2-C1 1.345(5), C1-Au1-C11 179.4(1), N1-C1-N2 104.9(4), N2-C1-Au1 127.7 (3), N1-C1-Au1 127.4(3).

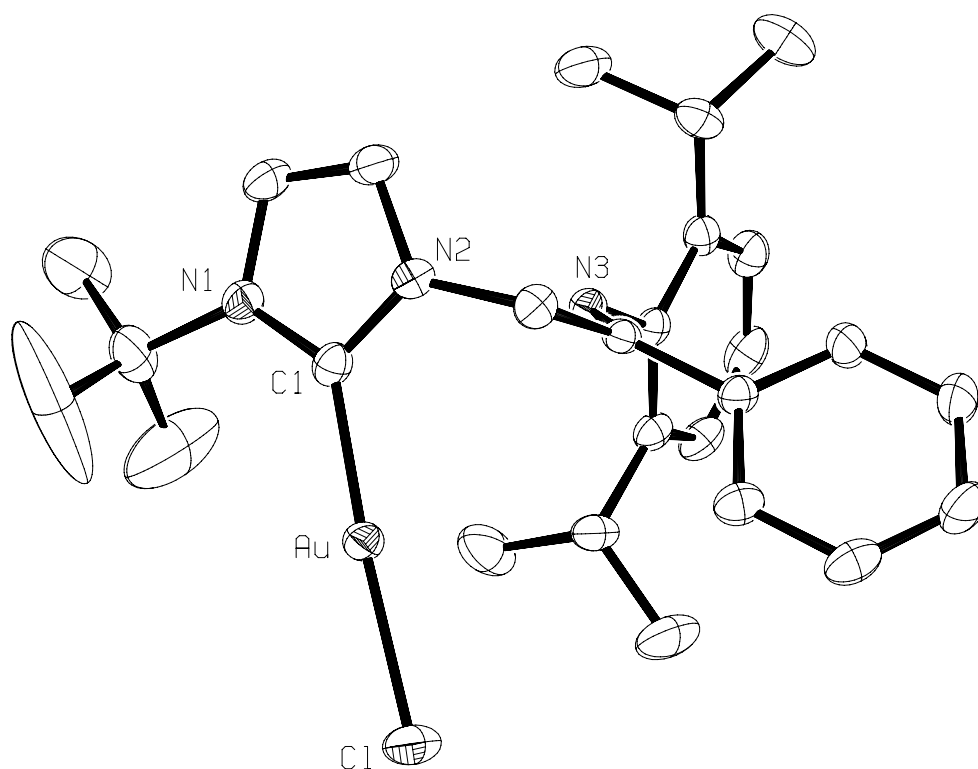


Figure S4. ORTEP of **3c** with thermal ellipsoids drawn at 50 % probability level. Selected bond lengths (Å) and angles (°): N1-C1 1.354(3), N2-C1 1.353(3), Au-C1 1.988(2), Au-Cl 2.2820(6), C1-Au-Cl 176.48(6).

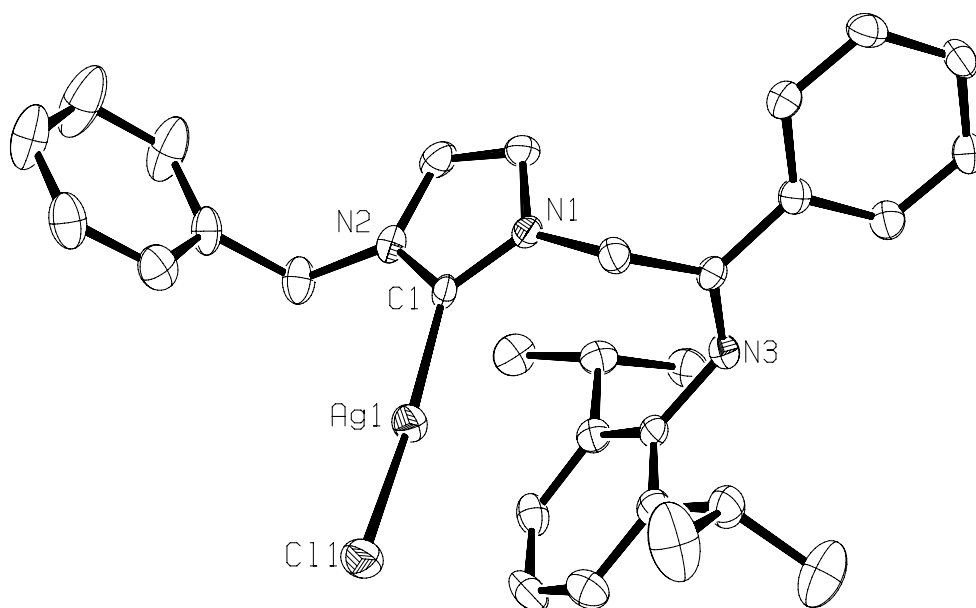


Figure S5. ORTEP of **4b** with thermal ellipsoids drawn at 50 % probability level. Selected bond lengths (Å) and angles (°): N1-C1 1.357(3), N2-C1 1.349(3), Ag1-C1 2.083(3), Ag1-Cl1 2.3364(7), C1-Ag1-Cl1 168.81(7).

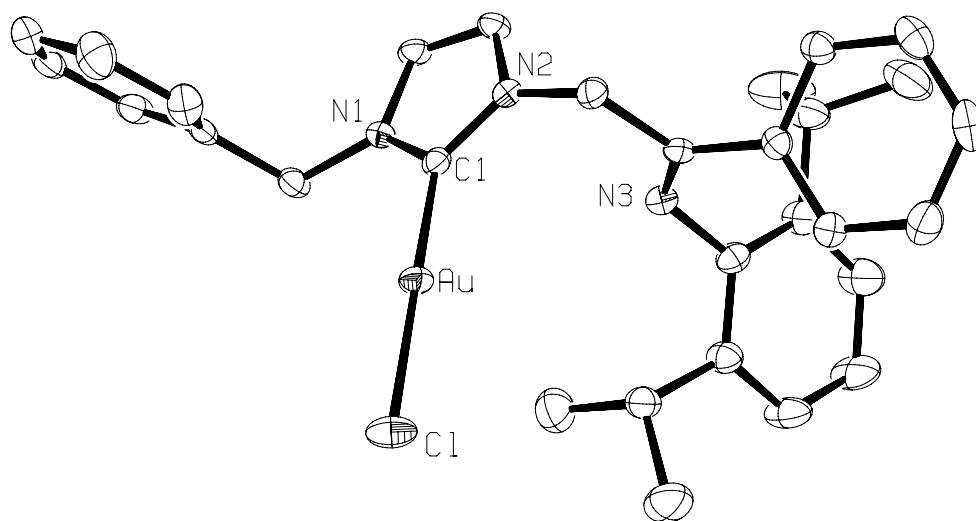


Figure S6. ORTEP of **4c** with thermal ellipsoids drawn at 50 % probability level. Selected bond lengths (Å) and angles (°): N1-C1 1.353(3), N2-C1 1.342(3), Au-C1 1.985(3), Au-Cl 2.2957(7), C1-Au-Cl 176.53(8).