Strem Chemicals, Inc.

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Catalog # 79-1205 Chloro[1,3-bis(2,4,6-trimethylphenyl)-4,5-dihydroimidazol-2-ylidene]gold(I), 98% SIMesAuCl

Technical Notes:

- 1. Catalyst for the carboheterofunctionalization of alkenes with arylboronic
- 2. Catalyst for the synthesis of 1-substituted benzo[b][1,4]diazepines

Ts
$$NH$$
 + $PhB(OH)_2$ $\frac{5 \text{ mol}\% \text{ SIMesAuCl}}{1.5 \text{ equiv SelectFluor}}$ $\frac{1.5 \text{ equiv SelectFluor}}{CH_3CN, 80^{\circ}C}$ $\frac{R^2}{NH}$ $\frac{R^2}{NH}$ + R $\frac{5 \text{ mol}\% \text{ SIMesAuCl}}{10 \text{ mol}\% \text{ AgOTf}}$ $\frac{10 \text{ mol}\% \text{ AgOTf}}{15 \text{ mol}\% \text{ NH}_4PF_6}$ $\frac{10 \text{ mol}\% \text{ NH}_4PF_6}{Methanol, \text{ reflux}}$ $\frac{10 \text{ mol}\% \text{ AgoTf}}{NH}$

References:

- 1. Tetrahedron, 2013, 69, 10375
- 2. J. Organomet. Chem., 2014, 751, 438