

Gold-Facilitated '6-Exo-dig' Intramolecular Cyclization of 2-[(2-Nitrophenyl)ethynyl]phenylacetic Acids: General Access to 5H-Benzo[b]carbazole-6,11-diones

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Abstract

The preliminary results of a regiospecific synthesis of (Z)-1-(2-nitrobenzylidene)isochroman-3-ones by gold(I)-catalyzed cycloisomerization of phenylethynylacetic acids under mild conditions is described. These novel lactones proved to be suitable starting materials for a new, general access to 5H-benzo[b]carbazole-6,11-diones.

Keywords

Alkynes, Annulations, Fused-ring systems, Gold(I) chloride, Indoles, Lactones, Nitro compounds, Quinones.