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Silver-Catalyzed Decarboxylative Alkynylation of alpha,alpha-Difluoroarylacetic Acids with Ethynylbenziodoxolone Reagents

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Abstract

A decarboxylating alkynylation of alpha,alpha-difluoroarylacetic acids with ethynylbenziodoxolone reagents is reported. AgNO₃ serves as the catalyst and K₂S₂O₈ as the oxidant. A series of functional groups were tolerated, and moderate to good yields were obtained.

Keywords

KeyWords Plus: ALIPHATIC CARBOXYLIC-ACIDS; ARYL BORONIC ACIDS; LIGHT PHOTOREDOX CATALYSIS; ROOM-TEMPERATURE; HYPERVALENT IODINE; ARYLBORONIC ACIDS; AQUEOUS-SOLUTION; ALPHA-ARYLATION; EBX REAGENTS; PALLADIUM

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