

Stereoselective Synthesis of α -Aryl Amino Acids

Category

Peptide Chemistry

Key words

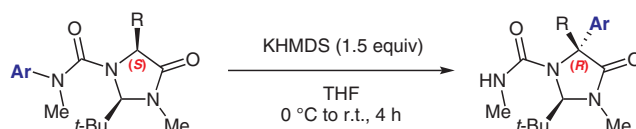
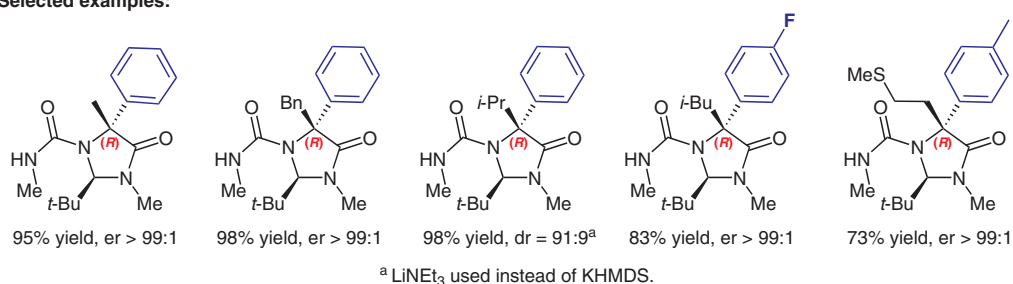
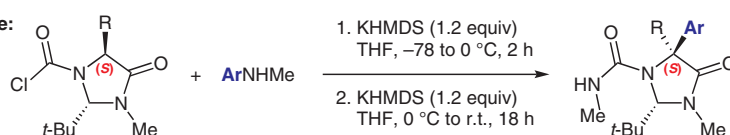
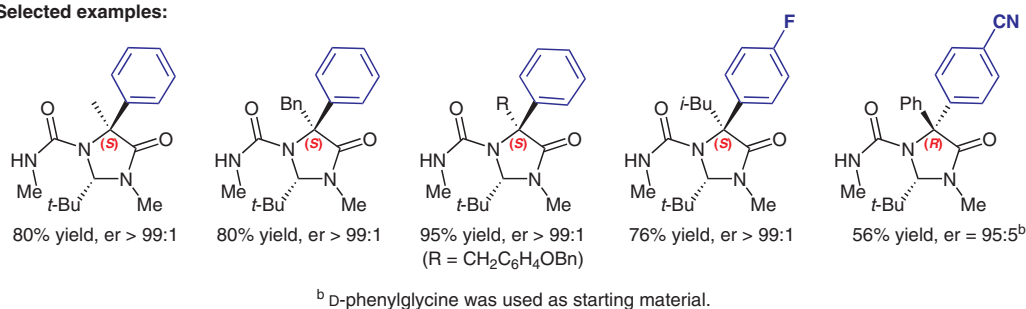
arylation

quaternary amino acids

potassium bistrimethylsilylamide

stereoselectivity

aryl amino acids

R-Selective route:**Selected examples:****S-Selective route:****Selected examples:**

Significance: Quaternary amino acids play an important role as modifiers of peptide conformation and bioactivity. The authors describe an α -arylation of enantiopure amino acid precursors to form quaternary centers.

Comment: This KHMDS-mediated α -arylation of enantiopure amino acid precursors proceeds smoothly to provide quaternary amino acids in high yields and without significant loss of stereochemical integrity.