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Title: Synthesis of Nitrile Equipped Unnatural Amino Acid Derivatives

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Keywords: Chemistry
Amino Acid

Issue Date: 29-Jul-2015

Publisher: IISER M

Abstract: An entry into synthesis of β -nitrile equipped unnatural amino acid derivatives via nucleophilic addition of bromoacetonitrile or 2-bromopropanenitrile to α -imino esters or diimino esters is reported. The synthesis of nitrile containing β -amino alcohol, aspartic acid, and β -nitrile equipped N-arylated amino acids was achieved from nitrile containing α -amino esters obtained from this work. Dipeptide composed of nitrile attached unnatural α -amino acid and (R)-phenylalanine was also synthesized.

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