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Sanha Lee et al., Endocrinol Diabetes Res 2017, 3:3
DOI: 10.4172/2470-7570-C1-003

19TH Asia Pacific Diabetes Conference

July 20-22, 2017 Melbourne, Australia

Chemoselective acylation of 2-amino-8-quinolinol in the generation of C2-amides or C8-esters

Sanha Lee, Youngseok Park, Xiang Fei, Yue Yuan and Seung-Yong Seo
Gachon University, South Korea

Two different ways in chemoselective acylation of 2-amino-8-quinolinol with unique features to generate C2-amides or C8-esters were developed. The coupling reaction with a variety of carboxylic acids using EDCI and DMAP provided C8-ester derivatives whereas N-heteroaromatic acids were not introduced on the C8-hydroxy group but, rather on the C2-amino group under the same conditions. To obtain C2-amides selectively the anionic nucleophile from 2-amino-8-quinolinol was treated with less reactive acyl imidazolides or esters.

Biography

Sanha Lee has graduated from Korea Maritime and Ocean University. Presently, she has joined Professor Seo's Medicinal Chemistry lab in College of Pharmacy, Gachon University. Her research is focused on design and synthesis of small molecules for treatment of diabetes and related diseases.

sanha030@gmail.com

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