

Utility of Japp-Mingemann reaction for the preparation of 5-carboxy-6-chloroindole via Fischer indole protocol

5-Carboxy-6-chloroindole, a precursor for p38 kinase inhibitor, was prepared from 4-amino-2-chloro-3-iodobenzoic acid by following the Japp-Klingemann synthetic approach. The structures of the key intermediates were also confirmed by X-ray analyses. Computational analysis was helpful in understanding the importance of the substituents at the cyclization step of the synthesis.

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