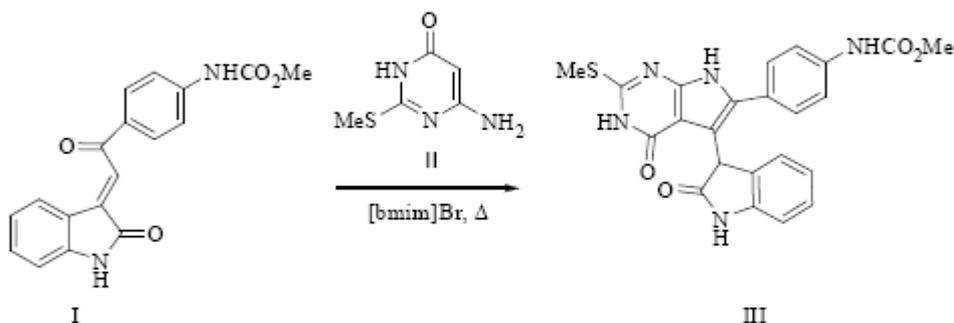


SYNTHESIS OF PYRROLOPYRIMIDINE DERIVATIVE

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We earlier investigate interaction of methyl N-{4(3)-[2-(2-oxo-1,2-dihydro-3*H*-indol-3-ylidene)acetyl]phenyl} carbamates with ethyl-3-aminocrotonate upon heating in mixture of toluene - ethanol, 2:1 resulting to formation of 3-pyrrol-3'-yloxindoles with carbamate function [1]. It is found, that heating of chalcone (I) and 6-amino-2-(methylthio)pyrimidin-4(3*H*)-one (II) in [bmim]Br during 1 h results in formation of methyl N-{4-[2-(methylsulfonyl)-4-oxo-5-(2-oxo-2,3-dihydro-1*H*-indol-3-yl)-4,7-dihydro-3*H*-pyrrolo[2,3-*d*]pyrimidin-6-yl]phenyl} carbamate (III) in 69% yield.



The structure of compound (III) has been confirmed by IR, ¹H, ¹³C NMR spectra.

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References:

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