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(57) Abstract :

The present invention relates to a synthesis of novel 3-(2-chloroquinolin-3-yl)-N-cyclohexylquinolin-2-amines and antibacterial activity thereof. A process for producing a compound of the formula (JF) Wherein R₁ represents a hydrogen atom, a nitro group, a chlorine atom or a methyl group, and R₂ represents a hydrogen atom, a methyl group or a methoxyl group, which comprises step 1 of reacting a compound of the formula (1) in the presence of acetic anhydride (Ac₂O), glacial acetic acid (AcOH) and sodium acetate (NaOAc) to obtain a compound of the formula (2); Wherein R₂ has the same meaning as defined above, which comprises, step 2 of reacting the compound of formula (2) obtained in the step 1 and phosphoryl chloride (POCl₃) in presence of N,N-dimethylformamide (DMF) to obtain the compound of the formula (3). Wherein R₂ has the same meaning as defined above, Wherein R₁ and R₂ have the same meaning as defined above, and which comprises, step 3 of reacting the compound of formula (3) obtained in the step 2, compound of formula (4) and compound of formula (5) in presence of ethanol (EtOH) using ceric ammonium nitrate (CAN) as catalyst to obtain the compound of the formula (JF).

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