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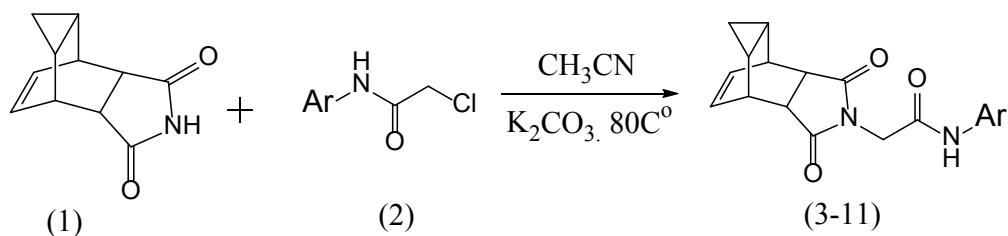
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Synthesis and characterization of 2-((4R,4aR,5aS,6S)-1,3-Dioxo-3,3a,4,4a,5,5a,6,6a- Octahydro-4,6-Ethenocyclopropa[f]Isoindol-2(1H)-yl)-N-(Substituted Phenyl) Acetamides anticepted to have anti HIV-1 activity

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This work includes the synthesis of some new octahydro 2-((4R,4aR,5aS,6S)-1,3-dioxo-3,3a,4,4a,5,5a,6,6a-o-4,6-ethenocyclopropa[f]isoindol-2(1H)-yl)-N-(substituted phenyl) acetamides (3-11) by reaction of (4R,4aR,5aS,6S)-4,4a,5,5a,6,6a-hexahydro-4,6-ethenocyclopropa[f]isoindole-1,3(2H,3aH)-dione (1) with 2-chloro-N-(substituted phenyl) acetamides (2) in the presence of potassium carbonate in refluxing acetonitrile as a solvent. These compounds have been identified by using spectroscopic methods including IR, 1H-NMR, 13C-NMR and elemental analysis (CHN).



Ar= Ph, PhCH₂, 4-Br-C₆H₄, 3, 5-dichloro-C₆H₃, 4-NO₂-C₆H₄, 4-COOH-C₆H₄, 4-CH₃CO-C₆H₄, CH₃CH₂OCO-C₆H₄, 2-COOH-C₆H₄

Biography

Abdulmajeed S H Alsamarrai has completed his PhD from University of Birmingham, UK, in 1984. He was the Dean of the college of applied science, University of Samarra, Iraq before that he was the Dean of the college of education, University of Tikret, Iraq. He has published more than 30 papers in reputed journals inside and outside Iraq.

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