

Synthesis and characterization of novel 5H-benzo[e]pyrrolo[1,2-a][1,4]diazepin-10(11H)-yl)(4-(1-methyl-1H-pyrazol-5-yl)phenyl)methanone

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Abstract

A simple and efficient method was developed to synthesize 5H-benzo[e]pyrrolo[1,2-a][1,4]diazepin-10(11H)-yl)(4-(1-methyl-1H-pyrazol-5-yl)phenyl)methanone from Pyrrole-2-carboxaldehyde and 1-(chloromethyl)-2-nitrobenzene as starting materials. A reagent tertbutoxybis(dimethylamino)methane (Bredereck's reagent, TBDMAM) used for selective formation of chalcones. All the synthesized compounds were well characterized by elemental analysis, IR, ¹H, ¹³C nmr and mass analysis.