

Research Paper

Synthesis and Pharmacological Evaluation of New Indolyl-oxadiazoles as Anticonvulsant Agents

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ABSTRACT: The search for better anticonvulsant drug and the importance of 2,5-disubstituted 1,3,4-oxadiazoles and indole as anticonvulsant pharmacophores, prompted us to design, synthesize and evaluate a series of differently substituted 1,3,4-oxadiazoles for their potential anticonvulsant activity. The structures of the compounds were elucidated by elemental and spectral (IR, ¹H NMR, ¹³C NMR and MS) analyses. Most of the test compounds demonstrated appreciable anticonvulsant activities in maximal electroshock seizure (MES) and subcutaneous pentylenetrtrazole (scPTZ) models.

KEYWORDS: Oxadiazole; Indole; Anticonvulsant activity
