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SYNTHESIS AND ANTICONVULSANT ACTIVITY OF NOVEL 2-AMINO-5-[4-CHLORO-2-(2-CHLOROPHENOXY) PHENYL]-1,3,4-THIADIAZOLE DERIVATIVES

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Abstract:

Several novel 2-amino-5-[4-chloro-2-(2-chlorophenoxy)phenyl]-1,3,4-thiadiazole derivatives 4a-d were synthesized and their anticonvulsant activity was determined by evaluation of the ability of these compounds to protect mice against convulsion induced by a lethal doses of pentylenetetrazole (PTZ) and maximal electroshock (MES). The result of anticonvulsant data shows that among the synthesized compounds, 5-[4-chloro-2-(2-chlorophenoxy)phenyl]-N-ethyl-1,3,4-thiadiazol-2-amine 4c was the most active compound in both MES and PTZ tests with an ED50 of 20.11 and 35.33 mg/kg, respectively.

Keywords:

1,3,4-thiadiazole . Anticonvulsant activity . Maximal electroshock

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