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(57) Abstract :

The present invention relates to the in silico study, synthesis, and pharmacological evaluation of amine-based beta, beta-diphenyl propionic acid derivatives as anticonvulsant agents. Beta, beta-diphenyl propionic acid was synthesized via Friedel–Crafts reaction of cinnamic acid with dry benzene in the presence of anhydrous aluminum chloride at 40–45 degrees Celsius, yielding 89.18 percent with a melting point of 148–150 degrees Celsius. The compound was converted to N,3,3-triphenylpropanamide (C21H19ON, mp 125–127 degrees Celsius, yield 45.18 percent) using thionyl chloride and aniline. Structural characterization was confirmed by IR (C=O at 1690 cm^{-1}, N–H at 3500–3350 cm^{-1}) and ^{1}H NMR spectroscopy. Pharmacological studies using maximal electroshock and strychnine-induced seizure models in albino mice showed significant anticonvulsant activity at 30 mg/kg, comparable to phenytoin sodium, indicating a promising pharmacophore.

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