

P19

Synthesis of 4-Amino-2,5-pyrrolidin-1-yl ester and its Derivates

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We found that amino-2,5-dioxo-pyrrolidin-1-yl ester showed significant anticonvulsant activities and their anticonvulsant activities were depend on their N-substituted alkyl group. Based on these facts, heptanoic acid 3-benzyloxycarbonylamino-2,5-dioxo-pyrrolidine-1-yl ester was synthesized by treatment of 3-carbobenzyloxy-amino-1-hydroxysuccinimide and heptanoyl chloride. And octanoic acid 3-benzyloxycarbonylamino-2,5-dioxo-pyrrolidin-1-yl ester was synthesised by treatment of 3-carbobenzyloxy-amino-1-hydrosuccinimide and octanoyl chloride. We will try to synthesize various compounds anticipated potent anticonvulsant activity.