

Drug Optimization & Chemical Structure

Modification of Antiseizure

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Gabapentin which is chemically known as 1-aminomethyl-1-cyclohexanecarboxylic acid and its structure is shown below is a very well known pharmaceutical drug useful for the treatment of epilepsy and other cerebral disorders. The medicine suffers from several disadvantages and low bioactivity. This presentation covers an overview about the drug synthesis, application and new ways of structure modification that could enhance the bioactivity of Gabapentin and reduce its side effects. The suggested chemical modification of Gabapentin is expected to increase its permeability to blood brain barrier.