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### Patent Search

Invention Title	SYNTHESIS AND ANTI-CONVULSANT ACTIVITY OF N-SUBSTITUTED AND 2-SUBSTITUTED BENZIMIDAZOLE DERIVATIVES
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#### Abstract:

The present invention relates to series of N-substituted 2-substituted benzimidazole derivatives, viz. 1-benzyl-2-substituted benzimidazole and 1-(p-chlorophenyl)-2-substituted benzimidazole have been synthesized and tested for their anticonvulsant activity. These compounds have been screened for their anticonvulsant activity, the compound 1 was found to possess significant anti-convulsant activity as compared with pentylenetetrazol.

### Complete Specification

The present invention relates to a Synthesis and anti-convulsant activity of some novel n-substituted and 2-substituted Benzimidazole derivatives and its pharmacological screening.

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#### BACKGROUND OF THE INVENTION

Historically the first benzimidazole was prepared in 1872 by Hoebrecker who obtained 2, 5 or 2, 6- dimethyl benzimidazole by the reduction of 2-nitro-4-methylacetanilide. Several years later Ladenburg obtained the same compound 10 by refluxing 3, 4-diaminotoluene with acetic acid. The benzimidazoles are known also as Benzimidazoles or benzoglyoxalines. Thus, benzimidazole according to this nomenclature would be called methenyl-o-phenylenediamine and 2-methylbenzimidazo. The Benzimidazole ring is an important pharmacophore in modern drug discovery. A large variety of 2-15 substituted benzimidazoles have been found to possess anti-inflammatory, antispasmodic, antihistaminic, antimicrobial, antitumour, anticancer and

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The present invention relates to series of N-substituted 2-substituted benzimidazole derivatives, viz. 1-benzyl-2-substituted benzimidazole and 1-(p-chlorophenyl)-2-substituted benzimidazole have been synthesized and tested for their anticonvulsant activity. These compounds have been screened for their anticonvulsant activity, the compound 1A, 1E was found to possess significant anti-convulsant activity as compared with pentylenetetrazol.

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