



Synthesis of Novel Spirohydantoin and Evaluation of their Anticonvulsant Activity

C.S. Ananda Kumar^{1,2*}, B.Veeresh³, K.C. Ramesha¹, C.S. Ashok Raj⁴,
K.M. Mahadevaiah¹, and S.B. Benaka Prasad⁵

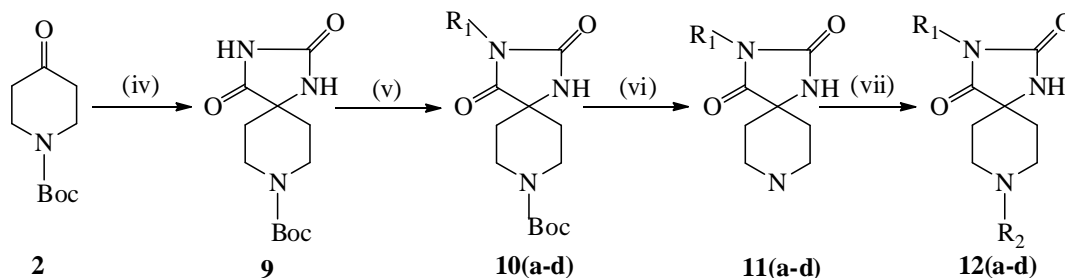
1. Department of Nanotechnology, Visvesvaraya Technological University CPGS, Muddenahalli, Bengaluru region -562101, **INDIA**
2. Centre for Materials Science, Vijnana Bhavan, University of Mysore, Manasagangotri, Mysore -570 006, **INDIA**
3. Department of Pharmacology, G Pullareddy College of Pharmacy, Mehdiapatnam, Hyderabad-580028, **INDIA**
4. Department of Chemistry, Karnataka State Open University, Mysore - 570006, **INDIA**
5. Department of basic science, School of Engineering and Technology, Jain University Bangalore, **INDIA**
Email: csanandakumar@gmail.com

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ABSTRACT

A series of novel triazaspiro and diazaspino compounds were synthesized and biologically evaluated for their anticonvulsant activity in the maximal electroshock seizure (MES). Most of the tested compounds exhibited moderate to weak activity in the MES screen test. A few compounds are able to protect seizure effect significantly higher than other derivatives. This effect was similar to standard drug treated rats.

Graphical Abstract



Scheme 2

Keywords: Hydantoins, Triazaspiro hydantoins, Anticonvulsant, Maximal electroshock, Phenytoin