

Product Data Sheet

Product Name: Ethotoin
Cat. No.: GC18399

Chemical Properties

Cas. No. 86-35-1

Chemical Name 3-ethyl-5-phenyl-2,4-imidazolidinedione

SMILES O=C(C(C1=CC=CC=C1)N2)N(CC)C2=O

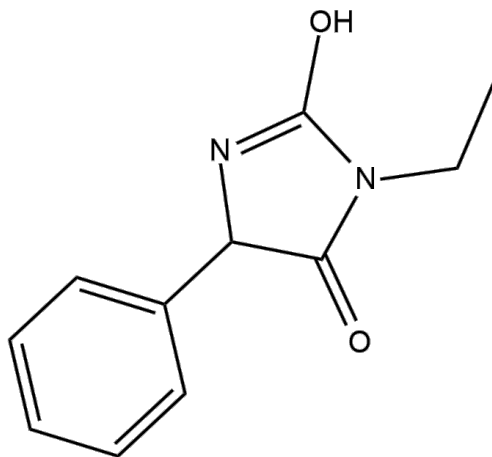
Formula $C_{11}H_{12}N_2O_2$ M.Wt 204.2

Solubility DMSO : ≥ 100 mg/mL (489.64 mM) Storage Store at 2-8°C, protect from light

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Background

Ethotoin is a hydantoin anticonvulsant. It shortens the duration of the tonic extensor aspect of seizures induced by maximal electroshock in rats when administered at doses ranging from 500-1,000 mg/kg. It also decreases the duration of the tonic phase of seizures at a dose of 1,000 mg/kg but does not affect the duration of the clonic phase at any dose. Ethotoin (20 mg/kg, i.p.) decreases serum cholesterol and triglyceride concentrations in mice to 67 and 60%, respectively, of control after

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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16 days of treatment. Formulations containing ethotoin have been used in the treatment of tonic-clonic and complex partial seizures.

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