Ethotoin

Cat. No.: HY-B1642

CAS No.: 86-35-1

Molecular Formula: $C_{11}H_{12}N_2O_2$

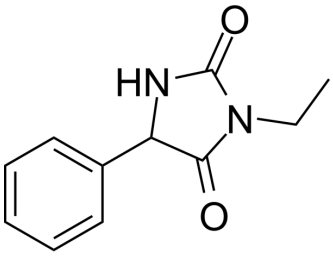
Molecular Weight: 204.23

Target: Others

Pathway: Others

Storage: 4°C, protect from light

* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 100 mg/mL (489.64 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions

Concentration \ Solvent \ Mass	1 mg	5 mg	10 mg
1 mM	4.8964 mL	24.4822 mL	48.9644 mL
5 mM	0.9793 mL	4.8964 mL	9.7929 mL
10 mM	0.4896 mL	2.4482 mL	4.8964 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Ethotoin (Peganone) is an orally active anticonvulsant agent used in epilepsy research, Ethotoin is a hydantoin, similar to phenytoin[1].

In Vivo

Ethotoin (oral gavage; 600 mg/kg; once) results in mild mortality and weight loss of offspring, after dosing on gestational day 18[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Pregnant Sprague-Dawley CD rats[2]
Dosage:	600 mg/kg
Administration:	Oral gavage; 600 mg/kg; once
Result:	Preweaning mortality for Ethotoin was 2.0%, Ethotoin -exposed animals weighed approximately 6.6% less than controls.

REFERENCES

[1]. A S Troupin, et al. Clinical pharmacology of mephenytoin and ethotoin. Ann Neurol. 1979 Nov;6(5):410-4.

[2]. D R Minck, et al. Comparison of the behavioral teratogenic potential of phenytoin, mephenytoin, ethotoin, and hydantoin in rats. Teratology. 1991 Apr;43(4):279-93.

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