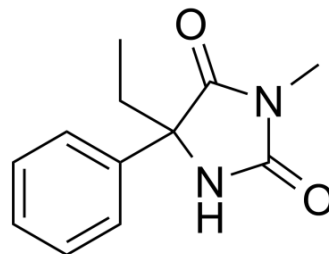


Mephenytoin

Cat. No.:	HY-B1184		
CAS No.:	50-12-4		
Molecular Formula:	C ₁₂ H ₁₄ N ₂ O ₂		
Molecular Weight:	218.25		
Target:	Cytochrome P450		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (229.10 mM); Need ultrasonic and warming)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	4.5819 mL	22.9095 mL	45.8190 mL
	5 mM	0.9164 mL	4.5819 mL	9.1638 mL
	10 mM	0.4582 mL	2.2910 mL	4.5819 mL

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

In Vivo

1. Add each solvent one by one: **10% DMSO >> 90% corn oil**
Solubility: ≥ 2.5 mg/mL (11.45 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Mephenytoin, an anticonvulsant, is the CYP2C19 and CYP2B6 substrate^[1].

REFERENCES

- [1]. Klaassen T, et al. Assessment of urinary mephenytoin metrics to phenotype for CYP2C19 and CYP2B6 activity. *Eur J Clin Pharmacol.* 2008;64(4):387-398.
- [2]. Relling MV, et al. Mephenytoin phenotyping: lack of haematologic effect and timing of urine collections. *Pharmacogenetics.* 1991;1(1):42-49.

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

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