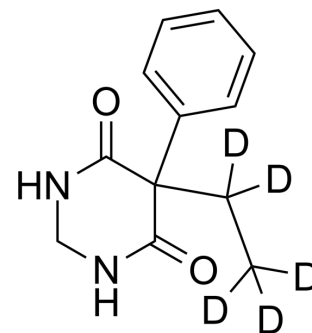


Primidone-d₅

Cat. No.:	HY-B0339S		
CAS No.:	73738-06-4		
Molecular Formula:	C ₁₂ H ₉ D ₅ N ₂ O ₂		
Molecular Weight:	223.28		
Target:	Sodium Channel		
Pathway:	Membrane Transporter/Ion Channel		
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 (223.93 mM; Need ultrasonic)
 H₂O : ≥ 0.67 mg/mL (3.00 mM)
 * "≥" means soluble, but saturation unknown.

	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	4.4787 mL	22.3934 mL	44.7868 mL
	5 mM	0.8957 mL	4.4787 mL	8.9574 mL
	10 mM	0.4479 mL	2.2393 mL	4.4787 mL

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

BIOLOGICAL ACTIVITY

Description

Primidone-d₅ is the deuterium labeled Primidone. Primidone is a potent anticonvulsant agent of the barbiturate class. Primidone is a neuronal voltage-gated sodium channel (VGSC) blocker and can be used for the study of epilepsy, essential tremor, and Psychiatric disorders[1].

In Vitro

Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs^[1].
 MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019;53(2):211-216.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA