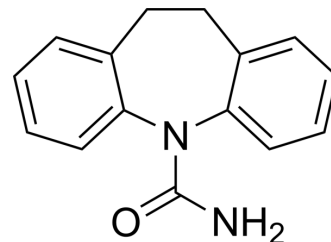


10,11-Dihydrocarbamazepine

Cat. No.:	HY-B2124		
CAS No.:	3564-73-6		
Molecular Formula:	C ₁₅ H ₁₄ N ₂ O		
Molecular Weight:	238.28		
Target:	Drug Metabolite		
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 : 100 mg/mL (419.67 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	4.1967 mL	20.9837 mL	41.9674 mL
		5 mM	0.8393 mL	4.1967 mL	8.3935 mL
10 mM		0.4197 mL	2.0984 mL	4.1967 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (10.49 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (10.49 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (10.49 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	10,11-Dihydrocarbamazepine is the active metabolite of Oxcarbazepine. 10,11-Dihydrocarbamazepine also is an intermediate. Oxcarbazepine is rapidly and almost completely converted to 10,11-Dihydrocarbamazepine with probable Anticonvulsant efficacy ^[1] .
In Vitro	Oxcarbazepine is metabolized in the liver to its active metabolite, 10,11-Dihydrocarbamazepine. Oxcarbazepine is an antiepileptic drug (AED) used to treat partial seizures as a monotherapy or adjunctive therapy ^[1] . 10,11-Dihydrocarbamazepine may be used as a reference standard for the determination of 10,11-dihydrocarbamazepine in

pharmaceutical formulations by liquid chromatography (LC)^[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Courtney Hunek, et al. Measurement of 10,11-dihydro-10-hydroxy-carbamazepine in serum and plasma by high-performance liquid chromatography. Clin Chem Lab Med. 2008;46(10):1429-33.

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

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