

## Licarbazepine

## Chemical Properties

CAS No. :	29331-92-8
Formula:	C15H14N2O2
Molecular Weight:	254.284
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.

## Biological Description

Description	Licarbazepine (10,11-hydroxy-10,11 Dihydrocarbamezer) is the pharmacologically active metabolite of oxcarbazepine, a drug indicated for the treatment of partial seizures and bipolar disorders.
Targets(IC50)	Others,Sodium Channel

## Solubility Information

Solubility	DMSO: 3.00 mg/mL (11.80 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 1.00 mg/mL (3.93 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.9327 mL	19.6634 mL	39.3267 mL
5 mM	0.7865 mL	3.9327 mL	7.8653 mL
10 mM	0.3933 mL	1.9663 mL	3.9327 mL
50 mM	0.0787 mL	0.3933 mL	0.7865 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Begas E , Tsakalof A , Dardiotis E , et al. Development and validation of a reversed-phase HPLC method for licarbazepine monitoring in serum of patients under oxcarbazepine treatment: HPLC method for licarbazepine monitoring in serum of patients[J]. Biomedical Chromatography, 2017, 31(9).  
Binding of licarbazepine enantiomers to mouse and human plasma proteins[J]. biopharmaceutics & drug disposition, 2010, 31(5-6):0-0.

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