Oxcarbazepine

Cat. No.: HY-B0114

CAS No.: 28721-07-5

Molecular Formula: $C_{15}H_{12}N_2O_2$

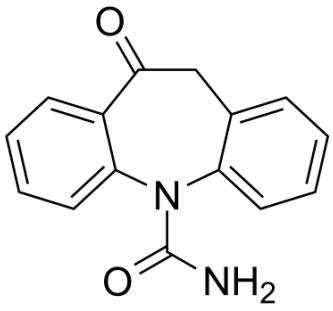
Molecular Weight: 252.27

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 (198.20 mM; Need ultrasonic)

H_2O : < 0.1 mg/mL (insoluble)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	3.9640 mL	19.8200 mL	39.6401 mL
5 mM	0.7928 mL	3.9640 mL	7.9280 mL
10 mM	0.3964 mL	1.9820 mL	3.9640 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.75 mg/mL (10.90 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.75 mg/mL (10.90 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Oxcarbazepine (GP 47680) inhibits the binding of [3H]BTX to sodium channels with IC_{50} of 160 μM and also inhibits the influx of 22Na+ into rat brain synaptosomes with IC_{50} about 100 μM.

IC_{50} & Target

Sodium Channel[1].

REFERENCES

[1]. May, T.W., E. Korn-Merker, and B. Rambeck, Clinical pharmacokinetics of oxcarbazepine. Clin Pharmacokinet, 2003. 42(12): p. 1023-42.

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