Eslicarbazepine acetate

Cat. No.: HY-B0703

CAS No.: 236395-14-5

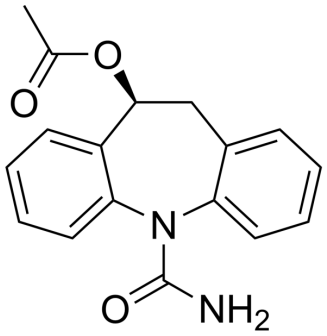
Molecular Formula: $C_{17}H_{16}N_2O_3$

Molecular Weight: 296.32

Target: Beta-secretase; Sodium Channel

Pathway: Neuronal Signaling; Membrane Transporter/Ion Channel

Storage: 4°C, protect from light, stored under nitrogen
* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 100 mg/mL (337.47 mM)
* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	3.3747 mL	16.8736 mL	33.7473 mL
5 mM	0.6749 mL	3.3747 mL	6.7495 mL
10 mM	0.3375 mL	1.6874 mL	3.3747 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: ≥ 10 mg/mL (33.75 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 10 mg/mL (33.75 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 10 mg/mL (33.75 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Eslicarbazepine acetate (BIA 2-093), an antiepileptic agent, is a dual a dual Inhibitor of β-Secretase and voltage-gated sodium channel.

In Vivo

Eslicarbazepine acetate is an antiepileptic drug. It is a prodrug which is activated to eslicarbazepine (S-licarbazepine), an active metabolite of oxcarbazepine. Eslicarbazepine acetate is a prodrug for (S)-(+)-licarbazepine, the major active metabolite of oxcarbazepine. Its mechanism of action is therefore identical to that of oxcarbazepine. Eslicarbazepine acetate may not produce as high peak levels of (S)-(+)-licarbazepine immediately after dosing as does oxcarbazepine which

	could theoretically improve tolerability[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Sibhghatulla Shaikh, et al. Aptiom (Eslicarbazepine Acetate) as a Dual Inhibitor of β-Secretase and Voltage-Gated Sodium Channel: Advancement in Alzheimer's Disease-Epilepsy Linkage via an Enzoinformatics Study. CNS & Neurological Disorders Drug Targets Volume 13 , Issue 7 , 2014.

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