Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

Cenobamate

Catalog No: tcsc0014686

Available Sizes

Size: 5mg

Size: 10mg

Size: 25mg

Size: 50mg

Size: 100mg

Specifications

CAS No:
913088-80-9

Formula:
$C_{10}H_{10}ClN_5O_2$

Pathway:
Neuronal Signaling;Membrane Transporter/Ion Channel;Membrane Transporter/Ion Channel

Target:
GABA Receptor;GABA Receptor;Sodium Channel

Purity / Grade:
>98%

Solubility:
DMSO : ≥ 126 mg/mL (470.73 mM)

Alternative Names:
YKP3089

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Observed Molecular Weight:
267.67

Product Description

Cenobamate, a **sodium channel** blocker, enhances **GABAergic** transmission and has the potential to be a versatile CNS drug.

IC50 & Target: Sodium channel, GABA receptor[1].

In Vivo: Cenobamate (YKP3089) protects against MES induced seizures in mice with an ED_{50} of 9.8 mg/kg i.p., and in rats with an ED_{50} of 1.9 mg/kg p.o. In the sc Met seizures model, Cenobamate given ip inhibited the clonic seizures in mice and rats, with ED_{50} values of 28.5 and 13.6 mg/kg, respectively. Cenobamate is also effective against seizure induced by picrotoxin with an ED_{50} of 34.5 mg/kg in mice. Cenobamate is effective in reducing significantly the expression of stage 5 seizures in the hippocampal kindled rat (ED_{50}=16.4 mg/kg). Cenobamate is effective in the mouse 6 Hz psychomotor seizure model at 22, 32 and 44 mA, with ED_{50} values of 11.0, 17.9 and 16.5 mg/kg, respectively. Cenobamate also protects against lithiumpilocarpine-induced intractable seizures in rats (ip) (ED_{50}=7.0 mg/kg)[2].