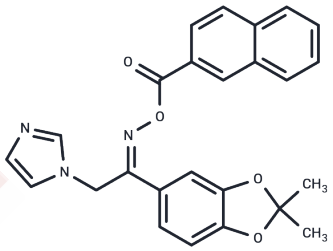
Data Sheet (Cat.No.T40335)

TargetMol

AChE-IN-3

Chemical Properties



CAS No. : 2713548-95-7

Formula: C25H21N3O4

Molecular Weight: 427.45

Storage: Store at low temperature
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	AChE-IN-3 had inhibitory effect on AChE and stronger inhibitory effect on NO, with EC50 of 0.57 μM.
Targets(IC50)	NO Synthase,Cholinesterase (ChE)

Solubility Information

Solubility	DMSO: 90 mg/mL (210.55 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: 3.3 mg/mL (7.72 mM),Sonication is recommended. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3395 mL	11.6973 mL	23.3945 mL
5 mM	0.4679 mL	2.3395 mL	4.6789 mL
10 mM	0.2339 mL	1.1697 mL	2.3395 mL
50 mM	0.0468 mL	0.2339 mL	0.4679 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

Ren B, et al. Imidazolylacetophenone oxime-based multifunctional neuroprotective agents: Discovery and structure-activity relationships. Eur J Med Chem. 2022 Jan 15;228:114031.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481