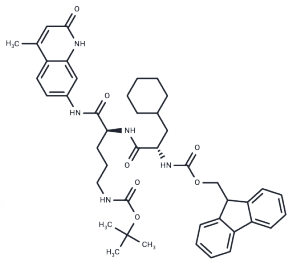
Data Sheet (Cat.No.T8963)

TargetMol

CYM2503

Chemical Properties



CAS No. : 1308833-36-4

Formula: C45H55N5O7

Molecular Weight: 777.95

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	CYM2503 is a positive allosteric modulator (PAM) of the GAL2 receptor that potentiates galanin-induced IP1 production in vitro. It has no affinity for the orthosteric galanin binding site of the receptor (as measured by its inability to displace iodinated galanin, or to induce IP1 accumulation on its own).
Targets(IC50)	Neuropeptide Y Receptor
In vitro	CYM2503 potentiated the galanin-stimulated IP1 accumulation in HEK293 cells stably expressing GalR2 receptor, whereas it exhibited no detectable affinity for the (125)I galanin-binding site of GalR2 receptor, an effect consistent with that of a positive allosteric modulator.
In vivo	In the rat Li-pilocarpine status epilepticus model, CYM2503, injected intraperitoneally, increased the latency to first electrographic seizure and the latency to first stage 3 behavioral seizure, decreased the latency to the establishment of status epilepticus, and dramatically decreased the mortality.?In a Li-pilocarpine seizure model in mice, CYM2503 increased the latency to first electrographic seizure and decreased the total time in seizure.?CYM2503 also attenuated electroshock-induced seizures in mice.?Thus, CYM2503 provides a starting point for the development of anticonvulsant therapy using the galanin R2 receptor as target.

Solubility Information

Solubility	DMSO: 50 mg/mL (64.27 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.2854 mL	6.4271 mL	12.8543 mL
5 mM	0.2571 mL	1.2854 mL	2.5709 mL
10 mM	0.1285 mL	0.6427 mL	1.2854 mL
50 mM	0.0257 mL	0.1285 mL	0.2571 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

Lu X , Roberts R , Xia R , et al. GalR2-positive allosteric modulator exhibits anticonvulsant effects in animal models [J]. Proc Natl Acad Sci U S A, 2010, 107(34):15229-15234.