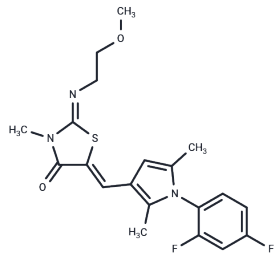
Data Sheet (Cat.No.T15032)

TargetMol

CYM50308

Chemical Properties



CAS No. : 1345858-76-5

Formula: C20H21F2N3O2S

Molecular Weight: 405.46

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	CYM50308 is a high affinity agonist of sphingosine-1-phosphate receptor 4 (S1P4-R) (EC50: 56 nM). CYM50308 has no activity at S1P1-R, S1P2-R and S1P3-R subtypes at concentrations up to 25 μM and it shows 37-fold more selective for S1P4-R than S1P5-R.
Targets(IC50)	LPL Receptor,S1P Receptor
In vitro	CYM50308 shows low nanomolar S1P4-R agonist activity and exquisite selectivity over the other S1P-Rs subtypes. CYM50308 provides a valuable pharmacological tool to explore the effects of the S1P4-R signaling cascade and elucidate the molecular basis of the in vivo receptor function[1].

Solubility Information

Solubility	DMSO: 1 mg/mL (2.47 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4663 mL	12.3317 mL	24.6633 mL
5 mM	0.4933 mL	2.4663 mL	4.9327 mL
10 mM	0.2466 mL	1.2332 mL	2.4663 mL
50 mM	0.0493 mL	0.2466 mL	0.4933 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.

Reference

Urbano M, et al. Discovery, synthesis and SAR analysis of novel selective small molecule S1P4-R agonists based on a (2Z,5Z)-5-((pyrrol-3-yl)methylene)-3-alkyl-2-(alkylimino)thiazolidin-4-one chemotype. Bioorg Med Chem Lett. 2011 Nov 15;21(22):6739-45.

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