CYM50260

Cat. No.: HY-108494

CAS No.: 1355026-60-6

Molecular Formula: $C_{14}H_{11}Cl_3FNO_2$

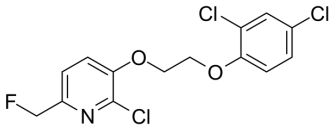
Molecular Weight: 350.6

Target: LPL Receptor

Pathway: GPCR/G Protein

Storage:

Powder	-20°C	3 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 125 mg/mL (356.53 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	2.8523 mL	14.2613 mL	28.5225 mL
	5 mM	0.5705 mL	2.8523 mL	5.7045 mL
	10 mM	0.2852 mL	1.4261 mL	2.8523 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

CYM50260 is a potent and exquisitely selective sphingosine-1-phosphate 4 receptor ($S1P_4$-R) agonist with an EC_{50} of 45 nM. CYM50260 displays no activity against $S1P_1$-R, $S1P_2$-R, $S1P_3$-R and $S1P_5$-R[1].

IC_{50} & Target

EC50: 45 nM ($S1P_4$-R)[1]

In Vitro

CYM50260 (Compound 22aa) is a synthetic S1P4-R agonist. CYM50260 is found 3.5-fold more potent than the hit compound (HTS-hit)[1].

CYM50260 suppresses the collagen-stimulated platelet aggregation, PDGF-AB secretion and sCD40L release. CYM50260 reduces the release of phosphorylated-HSP27 by collagen as well as the phosphorylation of HSP27[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Guerrero M, et al. Discovery, design and synthesis of novel potent and selective sphingosine-1-phosphate 4 receptor ($S1P_4$-R) agonists. Bioorg Med Chem Lett. 2012 Jan 1;22(1):537-42.

[2]. Onuma T, et al. Sphingosine 1-phosphate (S1P) suppresses the collagen-induced activation of human platelets via S1P4 receptor. Thromb Res. 2017 Aug;156:91-100.

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