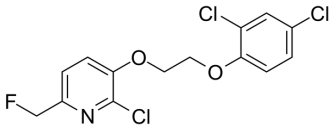
CYM50260

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



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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