MCE MedChemExpress

Product Data Sheet

GLP-1R Antagonist 1

Cat. No.: HY-101116 CAS No.: 488097-06-9 Molecular Formula: $C_{16}H_{11}ClF_6N_4O_2$

Molecular Weight: 441
Target: GCGR

Pathway: GPCR/G Protein

Storage: Powder -20°C 3 years

4°C 2 years

In solvent -80°C 2 years

-20°C 1 year

SOLVENT & SOLUBILITY

In Vitro DMSO: 100 mg/mL (226.76 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	2.2676 mL	11.3379 mL	22.6757 mL
	5 mM	0.4535 mL	2.2676 mL	4.5351 mL
	10 mM	0.2268 mL	1.1338 mL	2.2676 mL

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

In Vivo 1. Add each solvent one by one: 10% DMSO >> 90% corn oil

Solubility: \geq 2.5 mg/mL (5.67 mM); Clear solution

BIOLOGICAL ACTIVITY

Description	GLP-1R Antagonist 1 (compound 5d) is an orally active, CNS penetrant and non-competitive antagonist of glucagon-like peptide 1 receptor (GLP-1R), with an IC_{50} of 650 nM ^[1] .
IC ₅₀ & Target	IC50: 650 nM (GLP-1R) ^[1] .
In Vitro	GLP-1R Antagonist 1 (compound 5d) (0.3-10 μ M) inhibits the activity of glucagon-like peptide 1 (GLP-1) (7-36) amide in a dose-dependent manner in human TREx293 HEK cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	GLP-1R Antagonist 1 (compound 5d) (10 mg/kg, p.o.) increases the levels of blood glucose and decreases the levels of blood insulin in male Sprague-Dawley rats ^[1] .

(min) V _{SS} (L/kg) %F
587 3.57 50

REFERENCES

[1]. Kellie D. Nance, et al. Discovery of a novel series of orally bioavailable and CNS penetrant Glucagon-Like Peptide 1 Receptor (GLP-1R) non-competitive antagonists based on a 1,3-disubstituted-7-aryl-5,5-bis(trifluoromethyl)-5,8-dihydropyrimido[4,5-d]pyrimidine-2,4(1H,3H)-dione core. J. Med. Chem. 19 Jan 2017.

Caution: Product has not been fully validated for medical applications. For research use only.

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