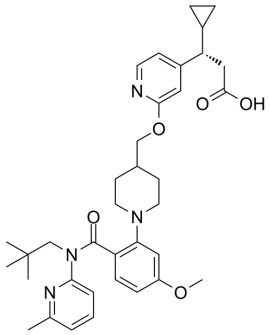
SCO-267

Cat. No.:	HY-132265
CAS No.:	1656261-09-4
Molecular Formula:	$C_{36}H_{46}N_4O_5$
Molecular Weight:	614.77
Target:	Free Fatty Acid Receptor
Pathway:	GPCR/G Protein
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (162.66 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	1.6266 mL	8.1331 mL	16.2662 mL
	5 mM	0.3253 mL	1.6266 mL	3.2532 mL
	10 mM	0.1627 mL	0.8133 mL	1.6266 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: ≥ 2.5 mg/mL (4.07 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

SCO-267 is an allosteric GPR40 full agonist. SCO-267 can be used for the research of chronic diseases including diabetes[1].

IC_{50} & Target

GPR40[1]

In Vitro

SCO-267 (CHO cells) activates the $G\alpha_q$, $G\alpha_s$, and $G\alpha_{12/13}$ pathways and β-Arrestin Recruitment. SCO-267 is allosteric with fasiglifam and an endogenous ligand[1].

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

In Vivo

SCO-267 (1 or 10 mg/kg; p.o.) improves insulin sensitivity and exerts sustained glucose-lowering effect[1].

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Animal Model:	N-STZ rats[1]
Dosage:	1 or 10 mg/kg
Administration:	P.o.;
Result:	Improved insulin sensitivity and exerted sustained glucose-lowering effect.

CUSTOMER VALIDATION

- Rapid Commun Mass Spectrom. 2022 May 13;e9325.
- Biomed Chromatogr. 2023 May 15;e5685.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Koyama R, et al. Chronic Exposure to SCO-267, an Allosteric GPR40 Full Agonist, Is Effective in Improving Glycemic Control in Rats. Mol Pharmacol. 2021 Apr;99(4):286-293.

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