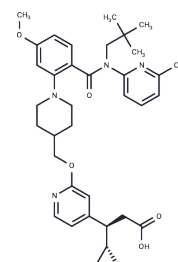


SCO-267

## Chemical Properties

CAS No. :	1656261-09-4
Formula:	C36H46N4O5
Molecular Weight:	614.77
Storage:	Keep away from moisture Powder: -20°C for 3 years   In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



## Biological Description

Description	SCO-267 is a full agonist of GPR40/FFAR1 with an EC50 of 12 nM, effectively stimulating insulin secretion and GLP-1 release in diabetic rats, improving glucose tolerance, and can be used for the treatment of type 2 diabetes.
Targets(IC50)	Glucagon Receptor, GPCR
In vitro	<p><b>Method:</b> The activation of G protein-coupled receptor signaling pathways by SCO-267 was evaluated in CHO cells, including Gαq, Gαs, Gα12/13 pathways and β-arrestin recruitment. Its allosteric interaction with fasiglifam and an endogenous ligand was also analyzed.[1]</p> <p><b>Result:</b> SCO-267 activated the Gαq, Gαs, and Gα12/13 pathways and induced β-arrestin recruitment. It exhibited allosteric modulation with fasiglifam and an endogenous ligand.[1]</p>
In vivo	<p><b>Method:</b> In the N-STZ rat model, SCO-267 was administered orally at doses of 1 or 10 mg/kg to evaluate its effects on insulin sensitivity and blood glucose levels.</p> <p><b>Result:</b> SCO-267 improved insulin sensitivity and exerted a sustained glucose-lowering effect. [1]</p>

## Solubility Information

Solubility	DMSO: 80 mg/mL (130.13 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 3.3 mg/mL (5.37 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

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	1mg	5mg	10mg
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
50 mM	0.0325 mL	0.1627 mL	0.3253 mL

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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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

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.

Ueno H, et, al. SCO-267, a GPR40 Full Agonist, Improves Glycemic and Body Weight Control in Rat Models of Diabetes and Obesity. *J Pharmacol Exp Ther.* 2019 Aug;370(2):172-181.

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