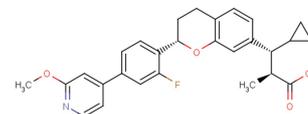


AP5

Chemical Properties

CAS No.:	1623194-37-5
Formula:	C ₂₈ H ₂₈ FNO ₄
Molecular Weight:	461.52
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	AP5 is a potent and selective agonist for the GPR40 receptor with positive allosteric modulation of endogenous ligands (AgoPAM). AP5 demonstrates a rat hIP1 EC ₅₀ of 0.49 nM against the GPR40 receptor.
Targets(IC ₅₀)	GPR40 Receptor: (EC ₅₀) 0.49±0.28 nM
In vitro	In the GK rat oral glucose tolerance test (oGTT), oral administration of AP5 1 h before an oral dextrose challenge shows that AP5 significantly reduces blood glucose levels compared to the vehicle. AP5 is determined to be more efficacious in this model, demonstrating maximally efficacious glucose-lowering at a plasma concentration of 4.9 μM at 10 mg/kg.

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.167 mL	10.834 mL	21.668 mL
5 mM	0.433 mL	2.167 mL	4.334 mL
10 mM	0.217 mL	1.083 mL	2.167 mL
50 mM	0.043 mL	0.217 mL	0.433 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Chen HY, et al. Structure-Activity Relationship of Novel and Selective Biaryl-Chroman GPR40 AgoPAMs. ACS Med Chem Lett. 2018 Jun 14;9(7):685-690.

Inhibitors · Natural Compounds · Compound Libraries

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