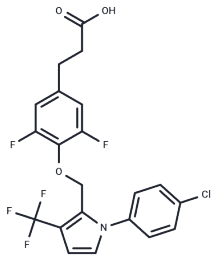
Data Sheet (Cat.No.T86518)

TargetMol

GPR120 Agonist 4

Chemical Properties



CAS No. : 1628641-89-3

Formula: C21H15ClF5NO3

Molecular Weight: 459.79

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	GPR120 Agonist 4 (example 1), a GPR120 agonist, exhibits EC50 values of 1 μM for β-arrestin A and 0.35 μM for Calcium A. This compound is utilized in research related to type II diabetes mellitus [1].
Targets(IC50)	GPCR
In vitro	GPR120 Agonist 4 (example 1), at concentrations of 0.012-25 μM over 90 minutes, activates GPR120 in CHO-K1 GPR120 β-arrestin cells through the recruitment of β-arrestin [1]. Additionally, GPR120 Agonist 4 (0.012-25 μM, 90 min) facilitates calcium ion release in HEK293 cells overexpressing human GPR120, confirming its effectiveness in activating GPR120 [1].
In vivo	GPR120 Agonist 4 (example 1), administered intraperitoneally at doses of 0.2/0.3/1/3/10 mg/kg for 15/30/45/60/90 minutes, promotes a dose-dependent reduction in glucose levels in a high-fat diet mouse model [1]. Furthermore, at doses of 1/3/10 mg/kg for the same time intervals, it inhibits the rise in glucose levels in a fasting mouse model in a dose-dependent manner [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1749 mL	10.8745 mL	21.7491 mL
5 mM	0.435 mL	2.1749 mL	4.3498 mL
10 mM	0.2175 mL	1.0875 mL	2.1749 mL
50 mM	0.0435 mL	0.2175 mL	0.435 mL

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.

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