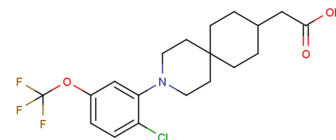


GPR120-IN-1

Chemical Properties

CAS No.:	1599477-75-4
Formula:	C ₁₉ H ₂₃ ClF ₃ NO ₃
Molecular Weight:	405.84
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	GPR120-IN-1 is a selective agonist of Gpr120 (logEC ₅₀ : -7.62).
Targets(IC ₅₀)	logEC ₅₀ : -7.62
In vitro	GPR120-IN-1 causes a concentration-dependent response to recruiting β -arrestin-2 in both human and mouse Gpr120 expressing cells(EC ₅₀ : ~0.35 μ M). GPR120-IN-1 produces concentration-dependent increases in IP3 production from both human and mouse Gpr120 expressing cells. GPR120-IN-1 strongly and comparably inhibits LPS-induced phosphorylation of I κ B, Tak1, and Jnk and blocked I κ B degradation.
In vivo	GPR120-IN-1 treatment has beneficial effects on hepatic lipid metabolism. It causes decreased liver triglycerides, decreased hepatic steatosis, and DAGs, as well as decreased saturated free fatty acid content. GPR120-IN-1 causes improved insulin sensitivity with increased glucose infusion rates. It also enhanced the insulin stimulated-glucose disposal rate. Only in WT mice, along with a marked increase in the ability of insulin to suppress hepatic glucose production.

Solubility Information

Solubility	DMSO: 50 mg/mL (123.20 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.464 mL	12.32 mL	24.64 mL
5 mM	0.493 mL	2.464 mL	4.928 mL
10 mM	0.246 mL	1.232 mL	2.464 mL
50 mM	0.049 mL	0.246 mL	0.493 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. Oh DY, et al. A Gpr120-selective agonist improves insulin resistance and chronic inflammation in obese mice. Nat Med. 2014 Aug;20(8):942-7.

Inhibitors · Natural Compounds · Compound Libraries

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