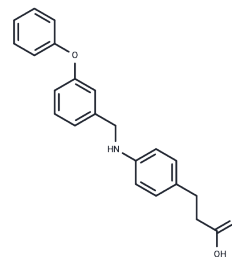


GW9508

Chemical Properties

CAS No. : 885101-89-3
 Formula: C₂₂H₂₁NO₃
 Molecular Weight: 347.41
 Appearance: no data available
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	GW9508(GW 9508) is a potent and selective agonist for FFA1 (GPR40), stimulates insulin secretion in a glucose-sensitive manner.
Targets(IC50)	GPCR,Potassium Channel
In vivo	In MIN6 cells, GW9508 stimulates insulin secretion in a dose-dependent manner and enhances insulin secretion mediated by KCl. In rat β -cells, GW9508 induces hyperpolarization and the opening of KATP channels. In HaCaT cells, GW9508 inhibits the expression of IL-11, IL-24, and IL-33 induced by TNF- α and IFN- γ . Additionally, in normal human epidermal keratinocytes, GW9508 suppresses the production of CCL5 and CXCL10.

Solubility Information

Solubility	Ethanol: 34.7 mg/mL (99.88 mM),Sonication is recommended. DMSO: 150 mg/mL (431.77 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8784 mL	14.3922 mL	28.7844 mL
5 mM	0.5757 mL	2.8784 mL	5.7569 mL
10 mM	0.2878 mL	1.4392 mL	2.8784 mL
50 mM	0.0576 mL	0.2878 mL	0.5757 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.

Reference

Briscoe CP, et al. Br J Pharmacol, 2006, 148(5), 619-628.

Li M, Wu Y, Qiu J, et al. Huangqin Decoction ameliorates ulcerative colitis by regulating fatty acid metabolism to mediate macrophage polarization via activating FFAR4-AMPK-PPAR α pathway. Journal of Ethnopharmacology. 2023; 116430.

Zhang L, Zhang Z, Wu Y, et al. Activation of free fatty acid receptors, FFAR1 and FFAR4, ameliorates ulcerative colitis by promote fatty acid metabolism and mediate macrophage polarization. International Immunopharmacology. 2024, 130: 111778.

Zhao YF, et al. J Endocrinol, 2008, 198(3), 533-540.

Fujita T, et al. J Invest Dermatol, 2011, 131(8), 1660-1667.

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