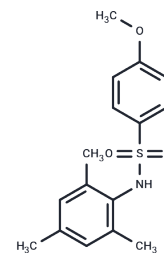


GSK137647A

Chemical Properties

CAS No. : 349085-82-1
 Formula: C₁₆H₁₉NO₃S
 Molecular Weight: 305.39
 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	GSK137647A (GSK 137647) is a selective agonist of FFA4.
Targets(IC50)	GPCR
Kinase Assay	HDAC-inhibitory activity: For the enzyme assay, 10 µL of [3H]acetyl-labeled histones (25,000 cpm/10 µg) are added to 90 µL of the HDAC enzyme fraction extracted from 293T cells overexpressing HDAC1 or HDAC2 in the presence of increasing concentrations of Romidepsin, and the mixture is incubated at 37 °C for 15 minutes. The enzyme reaction is linear for at least 1 hour. The reaction is stopped by the addition of 10 µL of concentrated HCl. The released [3H]acetic acid is extracted with 1 mL of ethylacetate, and 0.9 mL of the solvent layer is taken into 5 mL of aqueous counting scintillant II solution for determination of radioactivity. The IC50 values are determined from at least three independent dose-response curves.

Solubility Information

Solubility	DMSO: 50 mg/mL (163.73 mM), Sonication is recommended. H ₂ O: < 0.06 mg/mL (insoluble or slightly soluble), (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 2.5 mg/mL (8.19 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

	1mg	5mg	10mg
1 mM	3.2745 mL	16.3725 mL	32.745 mL
5 mM	0.6549 mL	3.2745 mL	6.549 mL
10 mM	0.3275 mL	1.6373 mL	3.2745 mL
50 mM	0.0655 mL	0.3275 mL	0.6549 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.

Reference

Sparks SM. Etal. Bioorg Med Chem Lett. 2014 Jul 15;24(14):3100-3.

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.

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