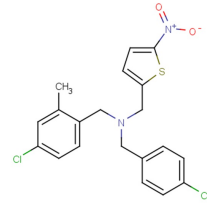


Data Sheet (Cat.No.T11490)

GSK2945

Chemical Properties

CAS No.: 1438071-12-5
 Formula: C₂₀H₁₈Cl₂N₂O₂S
 Molecular Weight: 421.34
 Appearance: N/A
 Storage: 0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	GSK2945 is a highly specific Rev-erb α /REV-ERB α (mouse/human reverse erythroblastosis virus α) antagonist (EC ₅₀ s: 21.5 μ M and 20.8 μ M). It enhances cholesterol 7 α -hydroxylase (CYP7A1) level and cholesterol metabolism.
Targets(IC ₅₀)	Others: None
In vitro	GSK2945 dose-dependently enhances the transcriptional activity of Rev-erb α and a Bmal1 (a target gene of REV-ERBs) luciferase reporter (EC ₅₀ : 2.05 μ M). GSK2945 (20 μ M) treatment also increases Lrh-1/LRH-1 (a known hepatic activator of Cyp7a1/CYP7A1) mRNA and protein. GSK2945 (20 μ M; 12 hours and 24 hours; mouse and human primary hepatocytes) treatment increases levels of Cyp7a1/CYP7A1 in mouse and human primary hepatocytes.
In vivo	GSK2945 treatment increases hepatic mouse cholesterol 7 α -hydroxylase (Cyp7a1) level and lowers plasma cholesterol in wild-type mice.

Solubility Information

Solubility	DMSO: 83.33 mg/mL (197.77 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.373 mL	11.867 mL	23.734 mL
5 mM	0.475 mL	2.373 mL	4.747 mL
10 mM	0.237 mL	1.187 mL	2.373 mL
50 mM	0.047 mL	0.237 mL	0.475 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. Zhang T, et al. REV-ERB α Regulates CYP7A1 Through Repression of Liver Receptor Homolog-1. Drug Metab Dispos. 2018 Mar;46(3):248-258.

Inhibitors · Natural Compounds · Compound Libraries

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