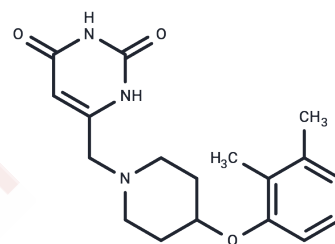


GSK2556286

Chemical Properties

CAS No. : 1210456-20-4
 Formula: C₁₈H₂₃N₃O₃
 Molecular Weight: 329.39
 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	GSK2556286 (GSK286) is an orally active inhibitor of Mycobacterium tuberculosis (M. tuberculosis), effective against multidrug-resistant (MDR), extensively drug-resistant (XDR), and drug-sensitive (DS) strains. It inhibits the growth of human macrophages with an IC ₅₀ value of 0.07 μM.
Targets(IC ₅₀)	Antibacterial

Solubility Information

Solubility	DMSO: 3 mg/mL (9.11 mM), Sonication and heating to 60°C are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0359 mL	15.1796 mL	30.3591 mL
5 mM	0.6072 mL	3.0359 mL	6.0718 mL
10 mM	0.3036 mL	1.518 mL	3.0359 mL
50 mM	0.0607 mL	0.3036 mL	0.6072 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

- Nuermberger EL, et al. GSK2556286 Is a Novel Antitubercular Drug Candidate Effective In Vivo with the Potential To Shorten Tuberculosis Treatment. *Antimicrob Agents Chemother.* 2022;66(6):e0013222.
 Brown KL, et al. Cyclic AMP-Mediated Inhibition of Cholesterol Catabolism in Mycobacterium tuberculosis by the Novel Drug Candidate GSK2556286. *Antimicrob Agents Chemother.* 2023;67(1):e0129422.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481