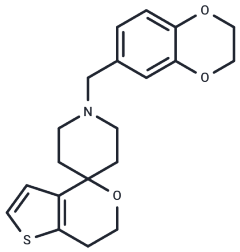
# Data Sheet (Cat.No.T4531)

TargetMol

GSK2200150A

## Chemical Properties



CAS No. : 1443138-53-1

Formula: C20H23NO3S

Molecular Weight: 357.47

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

## Biological Description

| | |
|---|---|
| Description | GSK2200150A is an anti-tuberculosis (TB) agent identified by high-throughput screening (HTS) campaign. |
| Targets(IC50) | Antibacterial |
| In vitro | GSK2200150A, a novel agent with a spirocycle core, exhibits strong antimycobacterial properties against the virulent Mycobacterium tuberculosis strain (H37Rv), demonstrating a minimal inhibitory concentration (MIC) of 0.38 μM [1]. |
| Cell Research | GSK2200150A is tested for activity at either single concentration (100 μM) or serially diluted in 10 μL of purified H2O in triplicate in 96 well microtiter plates. M. tuberculosis H37Rv is grown in complete Middlebrook 7H9 media containing albumin, dextrose and catalase (ADC), 20% Tween 80 and 50% glycerol. A bacterial suspension (90 μL) at OD600 nm of 0.001 is added to the wells and incubated for 7 days. Resazurin (10 μL; 0.05%(w/v)) is then added, incubated for 24 h at 37°C, and fluorescence measured at 590 nm using a FLUOstar Omega microplate reader. After subtraction of background fluorescence from all wells, the percentage mycobacterial survival is determined by comparing the fluorescence of wells containing compounds compared to control wells not treated with compound[1]. |

## Solubility Information

| | |
|---|---|
| Solubility | DMSO: 45 mg/mL (125.88 mM),Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|---|---|---|---|
| 1 mM | 2.7974 mL | 13.9872 mL | 27.9744 mL |
| 5 mM | 0.5595 mL | 2.7974 mL | 5.5949 mL |
| 10 mM | 0.2797 mL | 1.3987 mL | 2.7974 mL |
| 50 mM | 0.0559 mL | 0.2797 mL | 0.5595 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

Badiola KA, et al. Efficient Synthesis and Anti-Tubercular Activity of a Series of Spirocycles: An Exercise in OpenScience. PLoS One. 2014 Dec 10;9(12):e111782.