

Product Data Sheet

Product Name: GSK2200150A

Cat. No.: GC32317

Chemical Properties

Cas. No. 1443138-53-1

SMILES N1(CC2=CC=C(OCCO3)C3=C2)CCC4(C(C=CS5)=C5CCO4)CC1

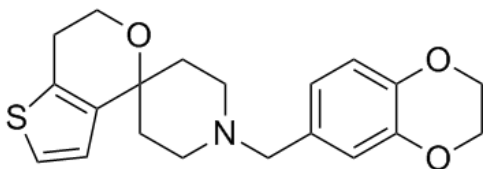
Formula C20H23NO3S M.Wt 357.47

Solubility DMSO : ≥ 83.33 mg/mL (233.11 mM) Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



Protocol

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

Cell experiment: GSK2200150A is tested for activity at either single concentration (100 μ M) or serially diluted in 10 μ L 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 μ L) at OD₆₀₀ nm of 0.001 is added to the wells and incubated for 7 days. Resazurin (10 μ L; 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].

References:

[1]. 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):e1111782.

Background

GSK2200150A, identified by high-throughput screening (HTS) campaign, is an anti-tuberculosis (TB) agent.

GSK2200150A is a novel antimycobacterial agent against Mycobacterium tuberculosis. The activities of GSK2200150A containing the spirocycle core are determined against the virulent M. tuberculosis strain (H37Rv) with MIC of 0.38 μ M[1].

[1]. 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):e1111782.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA