

GSK J5

Chemical Properties

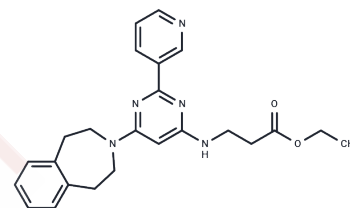
CAS No. : 1394854-51-3

Formula: C₂₄H₂₇N₅O₂

Molecular Weight: 417.5

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

Actual storage temperature shall be subject to the COA.



Biological Description

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| Description | GSK J5 is an inhibitor of schistosomes and helminths and is often used as a trematode insecticide. GSK J5 promotes schistosome mortality in a dose- and time-dependent manner. GSK J5 increases the mortality rate of schistosomes and decreases the viability of adult worms. GSK J5 is an inhibitor of schistosomes and helminths and is often used as a trematode insecticide. |
| Targets(IC50) | Histone Demethylase, Parasite |
| In vitro | GSK J5 (30 μM; 24-96 h) inhibits schistosomes, (5 and 20 μM; 24 h) also inhibits helminths and promotes small changes in worm motility.[1] |
| In vivo | It is worth noting that the injection of GSK-J4 attenuated disease progression in a human AML xenograft mouse model. Treatment with GSK-J4 mainly resulted in the downregulation of DNA replication and cell cycle-related pathways and prevents the expression of HOX, a key cancer gene. ChIP-qPCR verified the increased H3K27me3 enrichment in the HOX gene transcription initiation site [1]. |

Solubility Information

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| Solubility | DMSO: 4.18 mg/mL (10.01 mM), Sonication is recommended. Ethanol: < 41.75 mg/mL, Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|--|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|-----------|------------|
| 1 mM | 2.3952 mL | 11.976 mL | 23.9521 mL |
| 5 mM | 0.479 mL | 2.3952 mL | 4.7904 mL |
| 10 mM | 0.2395 mL | 1.1976 mL | 2.3952 mL |
| 50 mM | 0.0479 mL | 0.2395 mL | 0.479 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

Kruidenier L, et al. A selective jumonji H3K27 demethylase inhibitor modulates the proinflammatory macrophage response. *Nature*. 2012 Aug 16;488(7411):404-8.

Horton JR, et al. Characterization of a Linked Jumonji Domain of the KDM5/JARID1 Family of Histone H3 Lysine 4 Demethylases. *J Biol Chem*. 2016 Feb 5;291(6):2631-46.

Heinemann B, et al. Inhibition of demethylases by GSK-J1/J4. *Nature*. 2014 Oct 2;514(7520):E1-2.

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