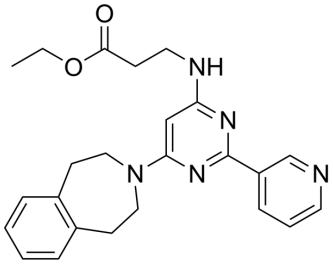
GSK-J5

Cat. No.:	HY-15648C
CAS No.:	1394854-51-3
Molecular Formula:	$C_{24}H_{27}N_5O_2$
Molecular Weight:	417.5
Target:	Histone Demethylase; Parasite
Pathway:	Epigenetics; Anti-infection
Storage:	Pure form -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 125 mg/mL (299.40 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.3952 mL	11.9760 mL	23.9521 mL
	5 mM	0.4790 mL	2.3952 mL	4.7904 mL
	10 mM	0.2395 mL	1.1976 mL	2.3952 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

GSK-J5 is a potent inhibitor of Schistosome and worm. GSK-J5 increases schistosomula mortality and adult worm motility and mortality, as well as egg oviposition, in a dose- and time-dependent manner[1].

IC_{50} & Target

Schistosome

In Vitro

GSK-J5 (30 μM; 24-96 h) inhibits Schistosome and (5 μM and 20 μM; 24 h) inhibit worms, and promotes minor alterations in worm motility[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

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

[2]. 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.

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

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