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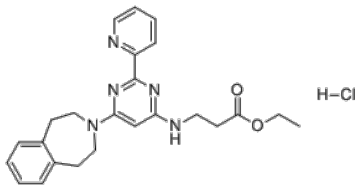
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	GSK-J4
Cat. No.	:	PC-21211
CAS No.	:	1373423-53-0
Molecular Formula	:	$C_{24}H_{28}ClN_5O_2$
Molecular Weight	:	453.97
Target	:	Histone Demethylase
Solubility	:	10 mM in DMSO



Biological Activity

GSK-J4 is a potent dual inhibitor of H3K27me3/me2-demethylases JMJD3/KDM6B and UTX/KDM6A with IC50s of 8.6 and 6.6 μM, respectively, GSK-J4 s a cell permeable prodrug of GSK-J1.
GSK-J4 inhibits LPS-induced TNF-α production in human primary macrophages with IC50 of 9 uM.
GSK-J4 prevents the JMJD3-induced loss of nuclear H3K27me3 immunostaining in Flag-JMJD3-transfected HeLa cells.
GSK-J4 inhibits JMJD3 expression that is induced by TGF-β1, inhibits H3K4 demethylation at Xist, Nodal, and HoxC13 in female embryonic stem cells.
GSK-J4 attenuates the development of kidney disease in diabetic mice.

References

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Majumder S, et al. J Clin Invest. 2018 Jan 2;128(1):483-499.

Donas C, et al. J Autoimmun. 2016 Dec;75:105-117.

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