

Data Sheet

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Global Supplier of Chemical Probes, Inhibitors & Agonists.

 Product Name
 :
 GSK-J4

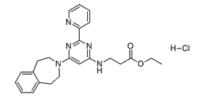
 Cat. No.
 :
 PC-21211

 CAS No.
 :
 1373423-53-0

 Molecular Formula
 :
 C₂₄H₂₈CIN₅O₂

 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 μ M, 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- β 1, 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

Kruidenier L, et al. *Nature*. 2012 Aug 16;488(7411):404-8. 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.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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