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GSK-J4

产品编号: D50740

CAS: 1373423-53-0

分子式: C24H27N5O2

纯度: ≥98%

InChi: InChI=1S/C24H27N5O2/c1-2-31-23(30)10-14-26-21-17-22(28-24(27-21)20-9-5-6-13-25-20)29-15-11-18-7-3-4-8-19(18)12-16-29/h3-9,13,17H,2,10-12,14-16H2,1H3,(H,26,27,28)

InChi Key: WBKCKEHGXNWYMO-UHFFFAOYSA-N

Smiles: CCOC(=O)CCNC1C=C(N=C(N=1)C1C=CC=CN=1)N1CCC2C=CC=CC=2CC1

外观: 固体粉末

作用通路: Apoptosis

溶解性: DMSO up to 100 mM

保存条件: Store in dry, dark place for one year.

产品介绍: GSK-J4 is an ethyl ester derivative of GSK-J1, which is the first selective and potent inhibitor of the H3K27 histone demethylases UTX and JMJD3. The highly polar carboxylate group of GSK-J1 restricts its cellular permeability, therefore GSK-J4 was developed as a pro-drug, masking the polarity of the acid group of the GSK-J1, for cellular assays. GSK-J4 could significant reduce LPS-induced pro-inflammatory cytokine production in primary human macrophages (IC50 ~9 μM for the inhibition of TNFα release). Together with GSK-J1, GSK-J4 could be a unique small molecule to allow selective pharmacological intervention across the JMJ family.