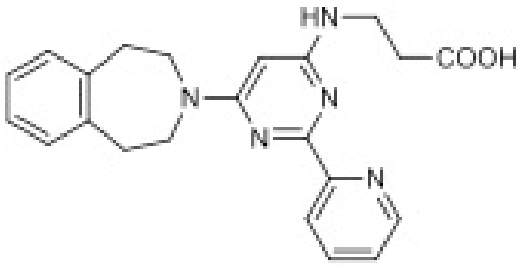
GSK-J1 (cell impermeable)

Catalog No: 14068, 14069

Format: 25 mg, 5 mg



Chemical Properties:
MW = 389.5
$C_{22}H_{23}N_5O_2$
CAS 1373422-53-7
Physical Properties: Pale yellow powder
Names: N-[2-(2-Pyridinyl)-6-(1,2,4,5-tetrahydro-3H-3-benzazepin-3-yl)-4-pyrimidinyl]-β-alanine

Pharmacology: A potent and selective inhibitor of jumonji H3K27 histone demethylases JMJD3 and UTX (IC_{50} = 60 nM, human JMJD3). This is the first known inhibitor selective for the H3K27me3-specific JMJ subfamily which binds to the active catalytic site of the enzyme. The COOH group confers cell impermeability and as such is useful as a standard *in vitro* assay. A cell permeable ethyl ester analog is also available (Catalog No. 14070).

Solubilization: May be dissolved in DMSO (20 mg/ml, warm)

Fluorescent Properties: N/A

Quality Control:
>99% (TLC); NMR (Conforms)

References:
1. L Kruidenier *et al. Nature* 2012, 488:404

Storage and Guarantee: Store desiccated as supplied at room temperature for up to 2 years. Store solutions at -20°C for up to 3 months. This product is guaranteed for 6 months from date of arrival.