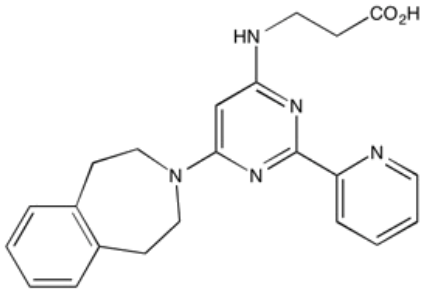
Catalog # 10-1393

GSK-J1

1373422-53-7

N-[2-(2-Pyridinyl)-6-(1,2,4,5-tetrahydro-3H-3-benzazepin-3-yl)-4-pyrimidinyl]-β-alanine

Lot # X106318



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 *in vitro* assays. A cell permeable ethyl ester analog is also available.

1) Kruidenier *et al*. (2012), *A selective jumonji H3K27 demethylase inhibitor modulates the proinflammatory macrophage response*; Nature, **488** 404

PHYSICAL DATA

Molecular Weight:	389.46
Molecular Formula:	$C_{22}H_{23}N_5O_2$
Purity:	99% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 20 mg/ml with warming)
Physical Description:	Pale yellow solid
Storage and Stability:	Store as supplied desiccated at room temperature for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months.

Focus Biomolecules LLC 400 Davis Drive, Suite 600 Plymouth Meeting PA 19462

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