BioVision

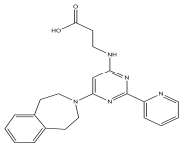
Product: GSK-J1(Free acid)

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

CATALOG #: 2761-1,5

AMOUNT: 1 mg, 5 mg

STRUCTURE:



MOLECULAR FORMULA: $C_{22}H_{23}N_5O_2$

MOLECULAR WEIGHT: 398.45

CAS NUMBER: 1373422-53-7

APPEARANCE: Pale yellow solid

SOLUBILITY: DMSO (~ 20 mg/ml)

PURITY: ≥98% by TLC

STORAGE: Store at -20 ℃. Protect from light and moisture

DESCRIPTION: GSK-J1 is 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 *in vitro* assays. A cell permeable ethyl ester analog is also available (Cat. Nos. 2259 & 2762).

REFERENCE: Kruidenier, L., *et al*. (2012). *Nature* **488,** 404-408.

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

RELATED PRODUCTS:

Caffeic acid **(Cat. No. 2303-50, 250)**
Clorgyline hydrochloride **(Cat. No. 2622-10, 50)**
Daminozide (**Cat. No. 2438-100, 500)**
Disulfiram **(Cat. No. 2308-10, 50)**
Ebselen **(Cat. No. 2169-5, 25)**
GSK-J4 hydrochloride **(Cat. No. 2259-1, 5)**
GSK-J4 (Free base) **(Cat. No. 2762-1,5)**
GSK-J1 sodium **(Cat. No. 2260-1, 5)**
Harmine **(Cat. No. 2561-50, 250)**
IOX1 **(Cat. No. 2266-5, 25)**
Jumonji HDM Inhibitor, JOB-04 **(Cat. No. 2474-5, 25)**
Jumonji HDM Inhibitor, PBIT **(Cat. No. 2475-5, 25)**
β-Lapachone **(Cat. No. 2262-5, 25)**
Pargyline hydrochloride **(Cat. No. 2618-500, 1000)**
2,4-PDCA **(Cat. No. 2304-100, 500)**
Rasagiline mesylate **(Cat. No. 2237-50, 250)**
Tranylcypromine hemisulfate **(Cat. No. 1816-25, 100)**

FOR RESEARCH USE ONLY! Not to be used on humans.

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