BioVision

01/14

For research use only

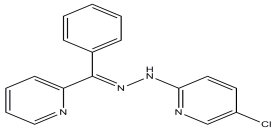
Product: Jumonji HDM Inhibitor, JIB-04

ALTERNATE NAME: 5-Chloro-2-[(*E*)-2-[phenyl(pyridin-2-yl)methylidene]hydrazin-1-yl]pyridine; NSC693627

CATALOG #: 2474-5, 25

AMOUNT: 5 mg, 25 mg

STRUCTURE:



MOLECULAR FORMULA: $C_{17}H_{13}ClN_4$

MOLECULAR WEIGHT: 308.76

CAS No. 199596-05-9

APPEARANCE: White solid

SOLUBILITY: DMSO (~20 mg/ml)

PURITY: >98% by HPLC

STORAGE: Store at -20°C. Protect from air and light

DESCRIPTION: JIB-04 (*E*-isomer) is a potent, cell-permeable inhibitor of Jumonji histone demethylases in vitro and in vivo. (In vitro IC_{50} values are 230, 340, 435, 445, 855 and 1100 nM for JARID1A, JMJD2E, JMJD2B, JMJD2A, JMJD3 and JMJD2C respectively). JIB-04 is not a competitive inhibitor of α-ketoglutarate ; it selectively inhibits viability of several human cancer cell lines with little toxicity towards normal cells, and also diminishes tumor growth in xenograft mouse models.

REFRENCES:

Wang, L., *et al.* (2013). *Nat. Commun.* **4,** 2045.

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)**
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-J1 sodium **(Cat. No. 2260-1, 5)**
IOX1 **(Cat. No. 2266-5, 25)**
β-Lapachone **(Cat. No. 2262-5, 25)**
2,4-PDCA **(Cat. No. 2304-100, 500)**
Tranylcypromine hemisulfate **(Cat. No. 1816-25, 100**

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

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