BioVision

rev. 10/15

For research use only

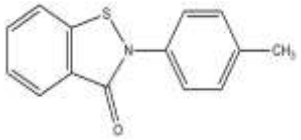
Product: Jumonji HDM Inhibitor, PBIT

ALTERNATE NAME: 2-4(4-methylphenyl)-1,2-benzisothiazol-3(2H)-one

CATALOG #: 2475-5, 25

AMOUNT: 5 mg, 25 mg

STRUCTURE:



MOLECULAR FORMULA: $C_{14}H_{11}NOS$

MOLECULAR WEIGHT: 241.31

CAS No. 2514-30-9

APPEARANCE: White solid

SOLUBILITY: DMSO (~50 mg/ml)

PURITY: >98% by HPLC

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

DESCRIPTION: PBIT is a potent, cell-permeable inhibitor of Jumonji histone demethylase (JHDM). Innhibits JARID1B (also known as KDM5B or PLU1) with an IC_{50} of about 3 µm in vitro. PBIT treatment inhibits removal of H3K4me3 by JARID1B in cells and inhibits proliferation of cells expressing higher levels of JARID1B.

REFRENCES:

Sayegh, J., *et al.* (2013). *J. Biol. Chem.* **288,** 9408-9417.

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)**
Jumonji HDM Inhibitor, JOB-04 **(Cat. No. 2474-5, 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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