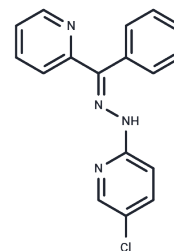


JIB-04

Chemical Properties

CAS No. : 199596-05-9
Formula: C₁₇H₁₃ClN₄
Molecular Weight: 308.76
Appearance: no data available
Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	JIB-04 (NSC 693627) is a pan-selective Jumonji histone demethylase inhibitor.
Targets(IC50)	Apoptosis,Histone Demethylase,Histone Methyltransferase
In vitro	In the H358 and A549 mouse xenograft models, JIB-04 inhibits the activity of Jumonji domain-containing histone demethylases, thereby suppressing tumor cell growth.
In vivo	In lung and prostate cancer cell lines (IC ₅₀ =10 nM), JIB-04 downregulates proliferation genes and inhibits cell growth.
Cell Research	For cell viability assays, cells are plated at 1500-3000 cells/well in 96 well plates and treated the next day with increasing doses of compound over 4 days and their viability assessed by standard MTS assays using Promega's Cell Titer or Cell Titer-Glo reagents according to the manufacturer's protocols. Absorbance at 490 nm and 650 nm or luminescence is measured by a Spectra Max or a FlouoroStar Omega plate reader. Data are normalized to the untreated controls (100% viability). Each cell line is tested in 2-5 independent assays, each containing 4-8 replicates. IC ₅₀ values are calculated using DIVISA, a high-throughput software, developed in hous, for storing and analyzing drug sensitivity assays. Dose-response curves are plotted using a non-linear regression model and IC ₅₀ s are determined from the fitted curves. The average IC ₅₀ derived from 2-5 independent assays, each containing 4-8 replicates is reported. (Only for Reference)

Solubility Information

Solubility	DMSO: 30.9 mg/mL (100 mM), (< 1 mg/ml refers to the product slightly soluble or insoluble)
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A DRUG SCREENING EXPERT

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.2388 mL	16.1938 mL	32.3876 mL
5 mM	0.6478 mL	3.2388 mL	6.4775 mL
10 mM	0.3239 mL	1.6194 mL	3.2388 mL
50 mM	0.0648 mL	0.3239 mL	0.6478 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Wang L, et al. Nat Commun. 2013, 4, 2035.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only· Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481