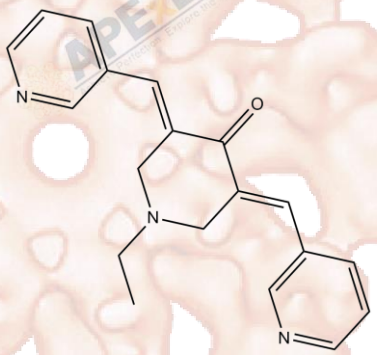
Product Data Sheet

MCB-613



Cat. No.:	A8712
CAS No.:	1162656-22-5
Formula:	C19H19N3O
M.Wt:	305.37
Synonyms:	
Target:	Chromatin/Epigenetics
Pathway:	Histone Acetyltransferases
Storage:	Store at -20°C

Solvent & Solubility

In Vitro

insoluble in H2O; ⩾13.2 mg/mL in DMSO with gentle warming; ⩾9.26 mg/mL in EtOH with ultrasonic

Preparing Stock Solutions

Mass / Solvent / Concentration	1mg	5mg	10mg
1 mM	3.2747 mL	16.3736 mL	32.7472 mL
5 mM	0.6549 mL	3.2747 mL	6.5494 mL
10 mM	0.3275 mL	1.6374 mL	3.2747 mL

Please refer to the solubility information to select the appropriate solvent.

Biological Activity

Shortsummary	stimulator of steroid receptor coactivator (SRC)
IC_{50} & Target	

In Vitro

Cell Viability Assay

Cell Line:	human cancer cell lines
Preparation method:	The solubility of this compound in DMSO is >13.2mg/mL. General tips for obtaining a higher concentration: Please warm the tube at 37°C for 10 minutes and/or shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.
Reacting conditions:	0-7 μM; 48 h

	Applications:	MCB-613 is cytotoxic and could efficiently kill a variety of human cancer cell lines, including MCF-7 (breast), PC-3 (prostate), H1299 (lung) and HepG2 (liver) cells. MCB-613 selectively killed cancer cells by inducing complex cytotoxicity with features that were characteristic of paraptosis.
In Vivo	**Animal experiment**	
	Animal models:	MCF-7 breast cancer mouse xenograft model
	Dosage form:	20 mg/kg in saline by i.p. injection; three times a week; seven weeks
	Applications:	In MCF-7 breast cancer mouse xenograft model, MCB-613 significantly and dramatically stalled the growth of the tumor compared with the control group while causing no obvious animal toxicity. The body weights between control and treated groups were not statistically different.
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may slightly differ with the theoretical value. This is caused by an experimental system error and it is normal.

Product Citations

See more customer validations on www.apexbt.com.

References

[1] Wang L, Yu Y, Chow DC et al. Characterization of a Steroid Receptor Coactivator Small Molecule Stimulator that Overstimulates Cancer Cells and Leads to Cell Stress and Death. Cancer Cell. 2015 Aug 10;28(2):240-52.

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

APExBIO Technology
www.apexbt.com
7505 Fannin street, Suite 410, Houston, TX 77054.
Tel: +1-832-696-8203 | Fax: +1-832-641-3177 | Email: info@apexbt.com