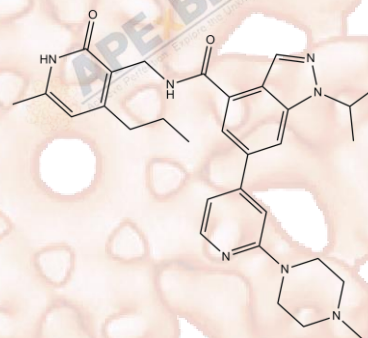


Product Data Sheet

GSK343

Cat. No.:	A3449
CAS No.:	1346704-33-3
Formula:	C31H39N7O2
M.Wt:	541.69
Synonyms:	GSK-343;GSK 343
Target:	Stem Cell
Pathway:	EZH2
Storage:	Store at -20°C



Solvent & Solubility

insoluble in H₂O; insoluble in EtOH; ≥ 7.58 mg/mL in DMF with gentle warming

In Vitro

Preparing Stock Solutions	Solvent	Mass		
		1mg	5mg	10mg
	Concentration			
	1 mM	1.8461 mL	9.2304 mL	18.4607 mL
	5 mM	0.3692 mL	1.8461 mL	3.6921 mL
	10 mM	0.1846 mL	0.9230 mL	1.8461 mL

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

Biological Activity

Shortsummary

EZH2 inhibitor,potent,selective and cell permeable

IC₅₀ & Target

4 nM (EZH2)

In Vitro

Cell Viability Assay

Cell Line:

Breast cancer cell lines (HCC1806, Sk-Br-3 and ZR-75-1) and prostate cancer cell lines (DU145, PC3 and LNCaP)

Preparation method:

The solubility of this compound in DMSO is limited. 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:	~ 50 μ M; 6 days
	Applications:	In HCC1806 breast cancer cells, GSK343 inhibited trimethylation of H3K27 (H3K27me3) with the IC50 value of 174 nM. In breast cancer cells and prostate cancer cells, GSK343 potently inhibited cell proliferation. In addition, the prostate cancer cell line LNCaP was the most sensitive to GSK343, with the IC50 value of 2.9 μ M.
In Vivo	Animal experiment	
	Applications:	

Product Citations

1. Ihira K, Dong P, et al. "EZH2 inhibition suppresses endometrial cancer progression via miR-361/Twist axis." *Oncotarget*. 2017 Feb 21;8(8):13509-13520.PMID:28088786

See more customer validations on www.apexbt.com.

References

[1]. Verma S K, Tian X, LaFrance L V, et al. Identification of potent, selective, cell-active inhibitors of the histone lysine methyltransferase EZH2. *ACS medicinal chemistry letters*, 2012, 3(12): 1091-1096.

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

