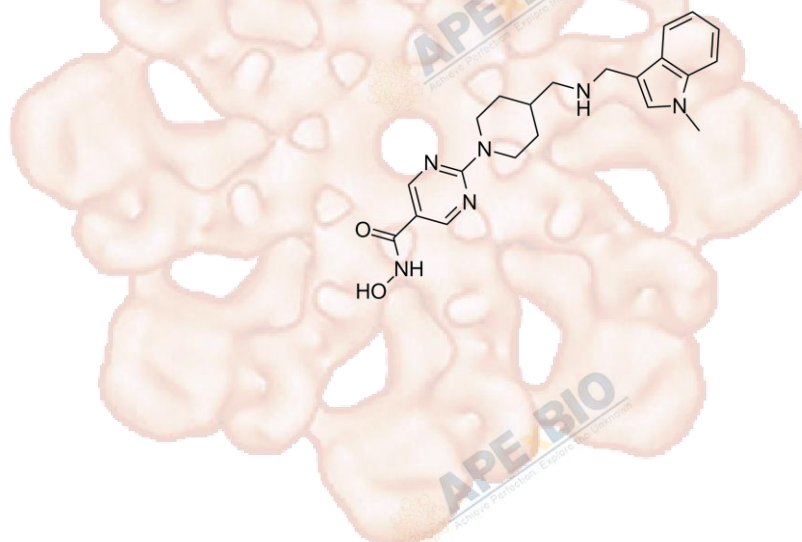


Product Data Sheet

JNJ-26481585

Cat. No.:	A4090
CAS No.:	875320-29-9
Formula:	C ₂₁ H ₂₆ N ₆ O ₂
M.Wt:	394.47
Synonyms:	JNJ26481585
Target:	DNA Damage/DNA Repair
Pathway:	HDAC
Storage:	Store at -20°C



Solvent & Solubility

insoluble in H₂O; insoluble in EtOH; ≥19.2 mg/mL in DMSO

In Vitro

Preparing Stock Solutions	Solvent	Mass		
		1mg	5mg	10mg
	Concentration			
	1 mM	2.5350 mL	12.6752 mL	25.3505 mL
	5 mM	0.5070 mL	2.5350 mL	5.0701 mL
	10 mM	0.2535 mL	1.2675 mL	2.5350 mL

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

Biological Activity

Shortsummary

Potent HDAC inhibitor

IC₅₀ & Target

0.11 nM (HDAC1), 0.33 nM (HDAC2), 0.64 nM (HDAC4), 0.46 nM (HDAC10), 0.37 nM (HDAC11)

In Vitro

Cell Viability Assay

Cell Line:	Non-small cell lung carcinoma (NSCLC) cell lines; hematologic cell lines; human tumor cells; human A2780 ovarian carcinoma cells.
Preparation method:	Soluble in DMSO > 10 mM. 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:	cell proliferation: 72 h, apoptosis assays: 24, 48, and 96 h.

	Applications:	In all lung, breast, colon, prostate, brain, and ovarian tumor cell lines tested, JNJ-26481585 inhibits cell proliferation with IC50 values of 3.1-246 nM. In A2780 ovarian tumor cells, JNJ-26481585 (3-300 nM) significantly and dose-dependently increases the amount of cells positive for Annexin V, which indicates apoptosis.
In Vivo	Animal experiment	
	Animal models:	Male athymic nu/nu CD-1 mice injected s.c. with human A2780-p21waf1,cip1 ZsGreen ovarian tumors cells
	Dosage form:	10 mg/kg i.p. and 40 mg/kg p.o.; once daily for 3 d.
	Applications:	In the HDAC1-responsive A2780 ovarian tumor screening model, JNJ-26481585 induces a bright and intense fluorescence, which is not uniformly distributed throughout the tissue and fully predicts tumor growth inhibition. Also, JNJ-26481585 induces potent H3 acetylation in the tumor tissue. In HCT116 colon xenografts, JNJ-26481585 (once daily, 10 mg/kg i.p.) for 14 days inhibits tumor volume by 76% and induces H3 acetylation.
	Preparation method:	Formulated at 2 mg/mL in 20% hydroxypropyl-β-cyclodextrin (final pH 8.7).
	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

1. Householder KT, DiPerna DM, et al. "pH driven precipitation of quisinostat onto PLA-PEGnanoparticles enables treatment of intracranial glioblastoma." Colloids Surf BBiointerfaces. 2018 Feb 24;166:37-44.PMID:29533842
2. Zhou H, Mondal A, et al. "Time-Dependent Effects ofPOT1 Knockdown on Proliferation, Tumorigenicity, and HDACi Response of SK-OV3Ovarian Cancer Cells." Biomed Res Int. 2018 Feb 6;2018:7184253.PMID:29546066
3. Hua Zhou, Abdul Mondal, et al. "Time-dependent effects of POT 1 knockdown on proliferation, tumorigenicity and HDACi response of SK." hindawi.2017.12.26

See more customer validations on www.apexbt.com.

References

- [1]. Arts J, King P, Marin A, et al. JNJ-26481585, a novel "second-generation" oral histone deacetylase inhibitor, shows broad-spectrum preclinical antitumoral activity. Clin Cancer Res, 2009, 15(22): 6841-6851.

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 APEX BIO 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.



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