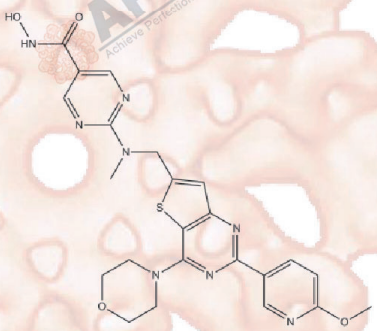
Product Data Sheet

CUDC-907



Cat. No.:	A4097
CAS No.:	1339928-25-4
Formula:	C23H24N8O4S
M.Wt:	508.55
Synonyms:	
Target:	DNA Damage/DNA Repair
Pathway:	HDAC
Storage:	Store at -20°C

Solvent & Solubility

In Vitro

≥25.45 mg/mL in DMSO; insoluble in H2O; insoluble in EtOH

Preparing Stock Solutions

Mass / Solvent / Concentration	1mg	5mg	10mg
1 mM	1.9664 mL	9.8319 mL	19.6637 mL
5 mM	0.3933 mL	1.9664 mL	3.9327 mL
10 mM	0.1966 mL	0.9832 mL	1.9664 mL

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

Biological Activity

Shortsummary	Potent PI3K/HDAC inhibitor
IC_{50} & Target	19 nM (PI3Kα), 1.7 nM (HDAC1), 5 nM (HDAC2), 1.8 nM (HDAC3), 2.8 nM (HDAC10)

In Vitro

Cell Viability Assay

Cell Line:	H460 cells
Preparation method:	The solubility of this compound in DMSO is > 25.5 mg/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:	1 μM; 16 hrs

	Applications:	In H460 cells, CUDC-907 increased the levels of activated caspase-7, p21 and c-PARP. Meanwhile, CUDC-907 decreased the levels of BCL-2, BCL-xL and survivin.
In Vivo	**Animal experiment**	
	Animal models:	Daudi NHL xenograft mouse model
	Dosage form:	25, 50 or 100 mg/kg; p.o.
	Applications:	In the Daudi NHL xenograft mouse model, CUDC-907 inhibited tumor growth in a dose-dependent manner. At the dose of 100 mg/kg, CUDC-907 resulted in tumor stasis without causing obvious toxicity.
	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]. Qian C, Lai CJ, Bao R, Wang DG, Wang J, Xu GX, Atoyan R, Qu H, Yin L, Samson M et al: Cancer network disruption by a single molecule inhibitor targeting both histone deacetylase activity and phosphatidylinositol 3-kinase signaling. Clin Cancer Res 2012, 18(15):4104-4113.

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.

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