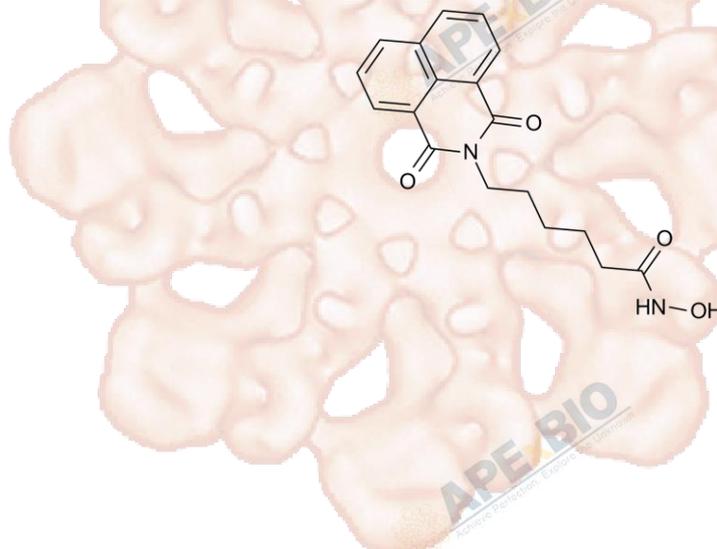


Product Data Sheet

Scriptaid

Cat. No.:	A4106
CAS No.:	287383-59-9
Formula:	C ₁₈ H ₁₈ N ₂ O ₄
M.Wt:	326.35
Synonyms:	
Target:	DNA Damage/DNA Repair
Pathway:	HDAC
Storage:	Store at -20°C



Solvent & Solubility

insoluble in H₂O; ≥13.1 mg/mL in DMSO; ≥3.17 mg/mL in EtOH with gentle warming and ultrasonic

In Vitro

Preparing Stock Solutions	Solvent	Mass		
		1mg	5mg	10mg
	Concentration			
	1 mM	3.0642 mL	15.3210 mL	30.6419 mL
	5 mM	0.6128 mL	3.0642 mL	6.1284 mL
	10 mM	0.3064 mL	1.5321 mL	3.0642 mL

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

Biological Activity

Shortsummary

HDAC inhibitor, novel and cell-permeable

IC₅₀ & Target

In Vitro

Cell Viability Assay

Cell Line: MDA-MB-231 cell lines

Preparation method: The solubility of this compound in DMSO is >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: 48 h; 1.0 mg/mL

	Applications:	Based on MTT assay a concentration of 1mg/ml of Scriptaid was chosen for the experiments in MDA-MB-231. MDA-MB-231 cells were treated with 0.1, 0.5, and 1.0 mg/mL of Scriptaid for 48 h. A dose-dependent increase in α -ER mRNA was detectable with concentrations as low as 0.1mg/ml in MDA-MB-231. Maximal α -ER mRNA was detected at 1.0mg/ml.
In Vivo	Animal experiment	
	Animal models:	B6D2F1 male and female mice; SCNT embryos
	Dosage form:	250 nM; immersion
	Applications:	Treating SCNT embryos with HDAC inhibitor, scriptaid, all the important inbred mouse strains can be cloned, such as C57BL/6, C3H/He, DBA/2, and 129/Sv. Normal development, reproductive ability, and genotype in cloned inbred mice produced by scriptaid treatment. Scriptaid has also lower toxicity for embryo development that treatment of ICSI-fertilized embryos with 250 nM scriptaid, for up to 48 h, did not inhibit in vitro or in vivo development.
	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. Ballante F, Reddy DR, et al. "Structural insights of SmKDAC8inhibitors: Targeting Schistosoma epigenetics through a combined structure-based3D QSAR, in vitro and synthesis strategy." Bioorg Med Chem. 2017 Apr1;25(7):2105-2132.PMID:28259528

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References

[1] Giacinti L, Giacinti C, Gabellini C, et al. Scriptaid effects on breast cancer cell lines[J]. Journal of cellular physiology, 2012, 227(10): 3426-3433.

[2] Van Thuan N, Bui H T, Kim J H, et al. The histone deacetylase inhibitor scriptaid enhances nascent mRNA production and rescues full-term development in cloned inbred mice[J]. Reproduction, 2009, 138(2): 309-317.

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. Short-term 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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