

Product Name: Tubastatin A HCI Revision Date: 01/23/2024

Product Data Sheet

Tubastatin A HCb

Cat. No.: A8547

CAS No.: 1310693-92-5

Formula: C20H21N3O2·HCl

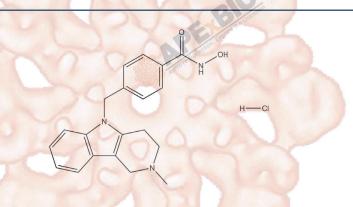
M.Wt: 371.86

Synonyms: TSA HCl;Tubastatin A hydrochloride

Target: DNA Damage/DNA Repair

Pathway: HDAC

Storage: Store at -20°C



Solvent & Solubility

≥18.6mg/mL in DMSO

HDAC6 inhibitor, potent and selective

In Vitro

Shortsummary

Preparing Stock Solutions	Solvent Concentration	1mg	5mg	10mg
	1 mM	2.6892 mL	13.4459 mL	26.8918 mL
	5 mM	0.5378 mL	2.6892 mL	5.3784 mL
-10	10 mM	0.2689 mL	1.3446 mL	2.6892 mL

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

Biological Activity

•	-1			
IC ₅₀ & Target	15 nM (HDAC6), 854 nM (15 nM (HDAC6), 854 nM (HDAC8)		
In Vitro	Cell Viability Assay	BIO CONTRACTOR OF THE PROPERTY		
	Cell Line:	HaCaT cells		
	Preparation method:	The solubility of this compound in DMSO is > 18.6 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:	10 μM; 10 hrs		
	Applications:	In HaCaT cells, Tubastatin A HCI selectively inhibited HDAC6, preventing		

		sodium arsenite-induced association of Nrf2 mRNA with ribosomes and			
		elevation of Nrf2 protein.			
	Animal experiment				
In Vivo	Animal models:	B6/Rag1-/- mice adoptively transferred with 1 × 106 WT CD4+ CD45RBhi cells			
	Dosage form:	25 mg/kg; i.p.; q.d., for 14 days			
	Applications:	Adoptively transferred B6/Rag1-/- mice which were treated with Tubastatin			
	Lating Delicion Epigoe W	HCI recovered body weights and normal stool formation. In addition, the			
		histologic examination showed reduced mononuclear cell infiltration,			
		preservation of goblet cells, as well as intact mucosal surfaces.			
	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]. Kyle V. Butler, Jay Kalin, Camille Brochier, et al. Rational Design and Simple Chemistry Yield a Superior, Neuroprotective HDAC6 Inhibitor, Tubastatin A [J]. J. Am. Chem. Soc., 2010, 132 (31), pp 10842–10846.

APENER DE LOS DELOS DE LOS DEL LOS DE LOS DELOS DE LOS DE

- [2]. Kappeler KV, Zhang J, Dinh TN, et al. Histone deacetylase 6 associates with ribosomes and regulates de novo protein translation during arsenite stress [J]. Toxicol Sci. 2012 May;127(1):246-255.
- [3]. de Zoeten EF, Wang L, Butler K, Beier UH, Akimova T, Sai H, Bradner JE, Mazitschek R, Kozikowski AP, Matthias P, Hancock WW. Histone deacetylase 6 and heat shock protein 90 control the functions of Foxp3(+) T-regulatory cells. Mol Cell Biol. 2011 May;31(10):2066-78.

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

203 | Tax. +1-832-041-3177 | Email: imo@apexb

ARELEGIA DO UN TUNDON

A P E Tracont

Lame of actual to the actual to the contract of the contract o

ARE LOOK IN COMME

APETALIAN ELIGIBLE PROTOCOM

APE Hadron to the control of the con