

Product Information

HDAC inhibitor Tubastatin A HCl, Purity ≥98%

Cat. No.: X23-10-ZQ347

Size: 10 mg; 25 mg; 50 mg; 100 mg

MDL: MFCD20488052

CAS Number: 1310693-92-5, 1239262-52-2

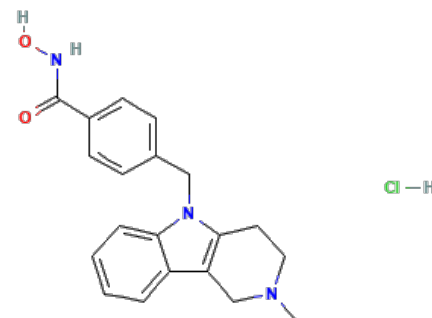
Compound CID: 57336514

Synonym: Tubastatin A hydrochloride; Tubastatin A HCl; 1310693-92-5; Tubastatin A (Hydrochloride); UHCM2AYJVX; TSA HCl; *N*

-hydroxy-4-[(2-methyl-3,4-dihydro-1*H*-pyrido[4,3-*b*]indol-5-yl)methyl]benzamide;

HDAC inhibitor

This product is for research use only and is not intended for diagnostic use.



Product Information

Description	Tubastatin A HCl, soluble in DMSO and insoluble in ethanol and water, induces DNA damage and the inhibition of DNA repair processes. It targets HDAC1, HDAC8, HDAC10, HDAC11, HDAC2, HDAC3, HDAC4, HDAC5, HDAC6, and HDAC7.
Molecular Weight	371.9
Molecular Formula	C ₂₀ H ₂₁ N ₃ O ₂ .HCl
Targets	HDAC1: 16.4 μM; HDAC8: 854 μM; HDAC10: >30 μM; HDAC11: >30 μM; HDAC2: >30 μM; HDAC3: >30 μM; HDAC4: >30 μM; HDAC5: >30 μM; HDAC6: 15 nM; HDAC7: >30 μM
IUPAC Name	<i>N</i> -Hydroxy-4-[(2-methyl-3,4-dihydro-1 <i>H</i> -pyrido[4,3- <i>b</i>]indol-5-yl)methyl]benzamide;hydrochloride
InChI	InChI=1S/C20H21N3O2.ClH/c1-22-11-10-19-17(13-22)16-4-2-3-5-18(16)23(19)12-14-6-8-15(9-7-14)20(24)21-25;/h2-9,25H,10-13H2,1H3,(H,21,24);1H
InChI Key	LJTSJTWIMOGKRJ-UHFFFAOYSA-N
Canonical SMILES	CN1CCC2=C(C1)C3=CC=CC=C3N2CC4=CC=C(C=C4)C(=O)NO.Cl
Form	Lyophilized powder
Purity	≥98%
Solubility	DMSO: 67 mg/mL (180.17 mM); Water: Insoluble; Ethanol: Insoluble
Identity	Confirmed by NMR/HPLC/MS.
Stability	The product is stable for three years when stored at the recommended temperature in lyophilized powder.



Applications

Tubastatin A HCl is employed to explore selective HDAC6 inhibition and its effects on neurodegeneration, inflammation, and cancer.

Storage

Store at -20°C.
