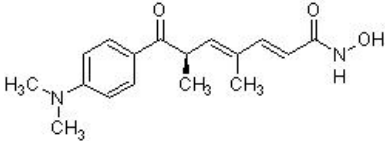


Product datasheet

Trichostatin A, histone deacetylase inhibitor ab120850

[3 References](#) [2 Images](#)

Overview

Product name	Trichostatin A, histone deacetylase inhibitor
Description	Potent, selective histone deacetylase inhibitor
Biological description	Potent, selective histone deacetylase (HDAC) inhibitor ($K_i = 3.4$ nM). Induces cell proliferation, differentiation and apoptosis <i>in vitro</i> . Anticancer and antifungal agent. Active <i>in vivo</i> and <i>in vitro</i> .
Purity	> 98%
CAS Number	58880-19-6
Chemical structure	

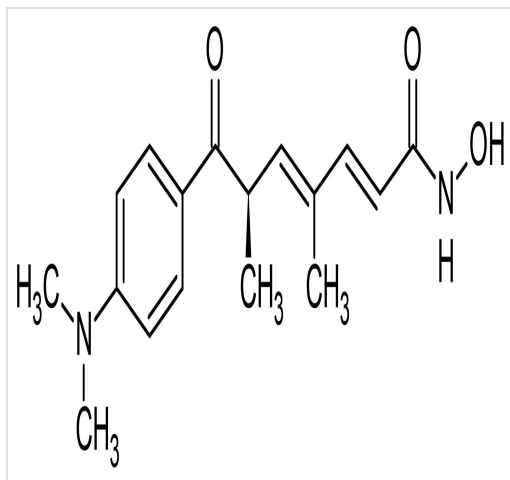
Properties

Chemical name	(2 <i>E</i> ,4 <i>E</i> ,6 <i>R</i>)-7-[4-(Dimethylamino)phenyl]- <i>N</i> -hydroxy-4,6-dimethyl-7-oxo-2,4-heptadienamamide
Molecular weight	302.37
Molecular formula	$C_{17}H_{22}N_2O_3$
PubChem identifier	444732
Storage instructions	Store at $-20^{\circ}C$. Store under desiccating conditions. The product can be stored for up to 12 months.
Solubility overview	Soluble in ethanol to 10 mM and in DMSO to 50 mM
Handling	<p>Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at $-20^{\circ}C$. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.</p> <p>Refer to SDS for further information.</p> <p>Need more advice on solubility, usage and handling? Please visit our frequently asked questions (FAQ) page for more details.</p>
SMILES	<chem>C[C@H](/C=C(\C)/C=C/C(=O)NO)C(=O)C1=CC=C(C=C1)N(C)C</chem>

Source

Streptomyces sp.

Images



Chemical Structure - Trichostatin A, histone deacetylase inhibitor (ab120850)

2D chemical structure image of ab120850, Trichostatin A, histone deacetylase inhibitor



Functional Studies - Trichostatin A, histone deacetylase inhibitor (ab120850)

Trichostatin A inhibits histone deacetylases in NIH/3T3 cells. Cells from logarithmic were incubated overnight with different concentrations of Trichostatin A (ab120850). Cell proteins were resolved by SDS-PAGE and probed with anti-acetylated histone antibodies.

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