



Product Information

Product ID T6933

CAS No. 58880-19-6

Chemical Name [R-(E,E)-7-[4-(Dimethylamino)phenyl]-N-hydroxy-4,6-dimethyl-7-oxo-2,4-heptadienamamide

Synonym TSA

Formula C₁₇H₂₂N₂O₃

Formula Wt. 302.37

Melting Point 150-151 °C

Purity ≥98%

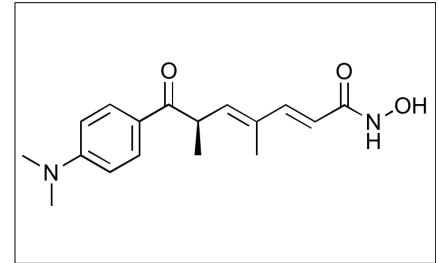
Solubility Soluble in lower alcohols.
Slightly soluble in
chloroform, ethyl acetate,
acetone and benzene.

Store Temp -20 °C

Ship Temp Blue Ice

Description Trichostatin A is an inhibitor of class I and II HDACs that exhibits anticancer and immunomodulatory activities. Trichostatin A induces cell cycle arrest, increases phosphorylation of JNK, downregulates activity of MCM-2, induces apoptosis, and inhibits proliferation of colon cancer cells. Trichostatin A also enhances differentiation and activity of CD4⁺ Foxp3⁺ Treg cells. Additionally, trichostatin A alters mammalian RNA splicing.

Trichostatin A also alters RNA splicing.



Bulk quantities available upon request

Product ID	Size
T6933	1 mg
T6933	5 mg

References Liu Y, He G, Wang Y, et al. MCM-2 is a therapeutic target of Trichostatin A in colon cancer cells. *Toxicol Lett.* 2013 Jul 31;221(1):23-30. PMID: 23770000.

Doñas C, Fritz M, Manríquez V, et al. Trichostatin A promotes the generation and suppressive functions of regulatory T cells. *Clin Dev Immunol.* 2013;2013:679804. PMID: 23737814.

Cecconi D, Donadelli M, Rinalducci S, et al. Proteomic analysis of pancreatic endocrine tumor cell lines treated with the histone deacetylase inhibitor trichostatin A. *Proteomics.* 2007 May;7(10):1644-53. PMID: 17443844.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.