

PRODUCT: Trichostatin A

[TSA; 4,6-Dimethyl-7-(*p*-dimethylaminophenyl)]

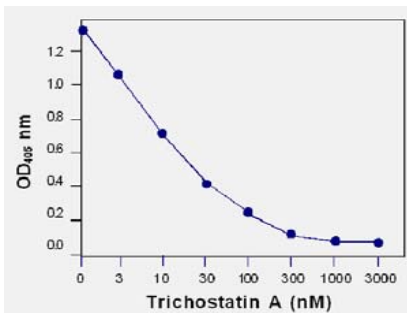
CATALOG #:	1606-1
AMOUNT:	1 mg
LOT #:	_____
MOLECULAR FORMULA:	C ₁₇ H ₂₂ N ₂ O ₃
MOLECULAR WEIGHT:	302.4
CAS:	58880-19-6
SOURCE:	Isolated from <i>Streptomyces hygroscopicus</i>
PURITY:	≥99%
APPEARANCE:	Whitish film adhered to inside of vial
SOLUBILITY:	Soluble in DMSO or ethanol

STORAGE CONDITIONS:

Store at -20°C (before reconstitution). Following reconstitution at DMSO, aliquot and freeze at -20°C (stable for 6 months). Following reconstitution at ethanol, store at 4°C (stable for 2-3 months).

DESCRIPTION:

Potent, reversible inhibitor of histone deacetylase. Mediates the activation of O⁶-methylguanine-DNA methyltransferase (MGMT). May be involved in cell cycle progression of several cell types, induces cell growth arrest at both G1 and G2/M phases. In some cases induces apoptosis.



Trichostatin A Inhibits HDAC Activity.

HeLa nuclear extract (NE) was incubated with 5 µl HDAC colorimetric substrate in the presence of various concentrations of HDAC inhibitor, Trichostatin A. After 30 min, reactions were stopped with 10 µl Lysine Developer. Samples were then read in a microtiter plate reader with O.D. = 405 nm.

RELATED PRODUCTS:

Apoptosis Detection Kits & Reagents

- Annexin V Kits & Bulk Reagents
- Caspase Assay Kits & Reagents
- Mitochondrial Apoptosis Kits & Reagents
- Nuclear Apoptosis Kits & Reagents
- Apoptosis Inducers and Set
- Apoptotic Cell Isolation Kit

Cell Fractionation System

- Mitochondria/Cytosol Fractionation Kit
- Nuclear/Cytosol Fractionation Kit
- Membrane Protein Extraction Kit
- Cytosol/Particulate Rapid Separation Kit
- Mammalian Cell Extraction Kit
- FractionPREP Fractionation System

Cell Proliferation & Senescence

- Quick Cell Proliferation Assay Kit
- Senescence Detection Kit
- High Throughput Apoptosis/Cell Viability Assay Kits
- LDH-Cytotoxicity Assay Kit
- Bioluminescence Cytotoxicity Assay Kit
- Live/Dead Cell Staining Kit

Cell Damage & Repair

- HDAC Fluorometric & Colorimetric Assays & Drug Discovery Kits
- HAT Colorimetric Assay Kit & Reagents
- DNA Damage Quantification Kit
- Glutathione & Nitric Oxide Fluorometric & Colorimetric Assay Kits

Signal Transduction

- cAMP & cGMP Assay Kits
- Akt & JNK Activity Assay Kits
- Beta-Secretase Activity Assay Kit

Adipocyte & Lipid Transfer

- Recombinant Adiponectin, Survivin, & Leptin
- CETP Activity Assay & Drug Discovery Kits
- PLTP Activity Assay Kit
- Total Cholesterol Quantification Kit

Molecular Biology & Reporter Assays

- siRNA Vectors
- Cloning Insert Quick Screening Kit
- Mitochondrial & Genomic DNA Isolation Kits
- 5 Minutes DNA Ligation Kit
- 20 Minutes Gel Staining/Destaining Kit
- β-Galactosidase Staining Kit & Luciferase Reporter Assay Kit

Growth Factors and Cytokines

Quality Antibodies for Apoptosis and Signal Transduction Molecules