

**PRODUCT:** **M344**  
[4-Dimethylamino-N-(6-hydroxycarbamoyl-hexyl)-benzamide]

**CATALOG #:** 1607-1

**AMOUNT:** 1 mg

**LOT #:** \_\_\_\_\_

**MOLECULAR FORMULA:** C<sub>16</sub>H<sub>25</sub>N<sub>3</sub>O<sub>3</sub>

**MOLECULAR WEIGHT:** 311.9

**CAS NUMBER:** 251456-60-7

**PURITY:** ≥98% by HPLC

**APPEARANCE:** White Solid

**SOLUBILITY:** Soluble in DMSO (1 mg/ml)

**STORAGE CONDITIONS:** Store at room temperature as supplied. Protect from light. After reconstitution, store at -20°C.

**DESCRIPTION:**

An amide analog of Trichostatin A (Cat.# 1606-1) that potently Inhibits histone deacetylases (IC<sub>50</sub> = 40 nM for rat liver HDAC and IC<sub>50</sub> = 100 nM for maize HDAC). Induces differentiation and inhibits proliferation (~2 μM) of murine erythroleukemia cells.

**CAUTION:** May be harmful by inhalation, in contact with skin or if swallowed.

**USAGE:** For research use only. Not to be used in humans.

**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
- Apoptosis siRNA Vectors

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 & Drug Discovery Kits
- 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

Monoclonal and Polyclonal Antibodies