



Biomolecules for research

MATERIAL SAFETY DATA SHEET

Section 1 : Substance Identification

Name: HDAC Fluorimetric Cellular Activity Assay
A *Fluor de Lys* Fluorescent Assay System

Catalog Number: AK-503

Company Identification: BIOMOL International L.P.
5120 Butler Pike
Plymouth Meeting PA 19462-1202 USA
(610) 941-0430 (9am-5pm ET)

Section 2 : Components

Vial #	Name:	Contents:	Quantity
KI-345	Nuclear Extract from HeLa Cells (human cervical cancer cell line)	2 mg protein / ml in 0.1 M KCl, 20 mM HEPES/NaOH, pH 7.9, 20% (v/v) glycerol, 0.2 mM EDTA, 0.5 mM DTT, 0.5 mM PMSF.	50µl
KI-104	<i>Fluor de Lys</i> TM Substrate	50 mM in DMSO	50µl
KI-105	<i>Fluor de Lys</i> TM Developer Concentrate (20 X)	20X Stock Solution	300µl
GR309-9090	Trichostatin A (HDAC Inhibitor) *See Attached MSDS for this component	0.2 mM in DMSO	100µl
KI-283	Nicotinamide (Sirtuin Inhibitor)	50 mM in Assay Buffer	500 µl
KI-142	<i>Fluor de Lys</i> TM Deacetylated Standard	10 mM in DMSO	30µl

KI-143	HDAC Assay Buffer	25 mM Tris/Cl, ph 8.0, 137 mM NaCl, 2.7 mM KCl, 1 mM MgCl ₂	20ml
KI-346	Cell Lysis Buffer	1.0% NP-40 in Assay Buffer	20 ml
AK503	Instruction Booklet		1 booklet
KI-101	½ Volume Microplate	½ Volume 96-well plate	1 plate
KI-347	Sterile ½ Volume Microplate with Lid		1 set

Section 3 : Health Hazards

Please be advised that the physical, chemical and toxicological properties of many of these components have not yet been fully investigated. It is therefore advised that all laboratory personnel handling this product follow standard laboratory safety procedures. It is recommended that personnel wear safety goggles, gloves, and protective clothing at all times, and avoid direct contact with the reagents supplied in this kit.

Section 4 : First Aid

Eye Contact: Check for and remove contact lenses. Flush eyes with running water for at least 15 minutes separating eyelids. **Seek medical attention immediately**

Skin Contact: Wash with soap and water for 15 minutes. Remove contaminated clothing and shoes. If irritation or discomfort develops, seek medical attention.

Inhalation: Remove from exposure. If breathing is difficult, administer oxygen. If breathing stops, administer artificial respiration. Seek medical attention if patient feels unwell or develops any respiratory symptoms. Provide chemical label and MSDS if possible.

Ingestion: Remove dentures and clear mouth. If person is conscious, rinse mouth with water. **Call physician or poison control immediately.** Provide chemical label and MSDS information if possible.

Section 5 : Fire / Flammability Information

None of the components of this kit pose a significant risk in case of fire. Fire fighting media should be selected to suit other materials involved in the fire. It is recommended that firefighters wear protective gear and self contained breathing apparatus to limit exposure.

Section 6 : Spill or Leak Procedures.

Cleanup Procedures: Wearing appropriate protective gear as outlined under “Protective equipment” wipe up spill area and rinse residue down the drain with plenty of water. Wash spill site with soap and water.

Waste Disposal Method: Dilute waste solutions and reagents with water and dispose of in accordance with federal, state, and local regulations.

Section 7 : Storage and Handling Precautions

Protective Equipment: For spill clean up, wear suitable protective clothing, chemical resistant rubber gloves, rubber boots, and chemical safety goggles.

Storage and Handling: The components of this kit should be stored -70°C with the exception of the 96-well plates, and the instruction booklet which can be stored at room temperature. All components should be kept in tightly closed containers. This product should be handled only by qualified experienced professionals. Wash thoroughly after handling the materials included in this kit.

Section 8 : Stability and Reactivity Data

Stability: This material is stable if stored as directed

Conditions to Avoid: None known

Incompatibles: Not available

Section 10 : Ecological Data

Ecotoxicological Information: None Available

The above information is believed to be correct but does not purport to be complete and should be used only as a guide. The burden of safe use of this material rests entirely with the user.

Emergency Contact:

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(610) 941-0430

Last Revised : 7/21/06



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Section 1 : Substance Identification

Name: Trichostatin A

CAS Number: 58880-19-6

Component Number: GR309-9090

Chemical Formula: C₁₇H₂₂N₂O₃

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

Chemical Class: Hydroxamic acid

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Section 2 : Health Hazard Data

Acute Health Effects: May be harmful if ingested, inhaled, or absorbed through the skin. May be irritating to skin, eyes, nose, throat, and lungs. May cause allergic reactions in certain hypersensitive individuals. Symptoms of overexposure can include: headache, dizziness, anorexia, stomach ache, diarrhea, nausea, vomiting or fever.

Chronic Health Effects: unknown

Section 3 : First Aid Measures

Eye Contact: Check for and remove contact lenses. Flush eyes with running water for at least 15 minutes separating eyelids. **Seek medical attention immediately.**

Skin Contact: Wash with soap and water for 15 minutes. Remove contaminated clothing and shoes. **Seek medical attention immediately.**

Inhalation: Remove from exposure. If breathing is difficult, administer oxygen. If breathing stops, administer artificial respiration. **Seek medical attention immediately.** Provide chemical label and MSDS if possible.

Ingestion: Remove dentures and clear mouth. If person is completely conscious, give plenty of milk or water and induce vomiting. **Call physician or poison control immediately.** Provide chemical label and MSDS information if possible.

Section 4 : Fire and Explosion Data

Flammability: Not Available

Flash Point: Not Available

Combustion Products: Carbon monoxide, Carbon dioxide, Nitrogen oxides.

Extinguishing Media: Carbon Dioxide, Dry chemical powder, polymer foam, water spray

Special Firefighting Procedures: Use self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Unusual Fire/Explosion Hazards: None known

Section 5 : Spill or Leak Procedures

Cleanup Procedures: **EVACUATE AREA** Wearing appropriate protective gear as outlined under "Protective equipment" wipe up spill and place in sealed container and hold for disposal. Avoid raising dust. Ventilate the area and wash spill site after material has been removed.

Waste Disposal Method: Observe all Federal, State and Local regulations concerning the disposal of this product.

Section 6 : Storage and Handling Precautions

Protective Equipment: For spill clean up, wear suitable protective clothing, chemical resistant rubber gloves, rubber boots, and chemical safety goggles. Self contained breathing apparatus or NIOSH/MSHA approved respirator is required.

Storage and Handling: This product should be stored at -20°C . It should be kept in a tightly closed container. This product should be handled only by qualified experienced professionals. Wash thoroughly after handling this material.

Section 7 : Physical Data

Appearance: White solid

Molecular Weight: 302.4

Boiling Point: Not Available

Solubility: DMSO, Ethanol, DMF

Specific Gravity: Not Available

Volatility: Not Available

Odor: Not Available

Taste: Not Available

Melting Point: $150-151^{\circ}\text{C}$

Vapor Density: Not Available

Vapor Pressure: Not Available

Section 8 : Stability and Reactivity Data

Stability: This material is stable if stored as directed

Conditions to Avoid: Excessive exposure to sunlight or heat

Incompatibles: Oxidizing agents

Section 9 : Toxicity Data

RTECS#: Not Listed

Section 10 : Ecological Data

Ecotoxicological Information: None Available

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