

Product Name: LMK 235

Catalog No.: 4830

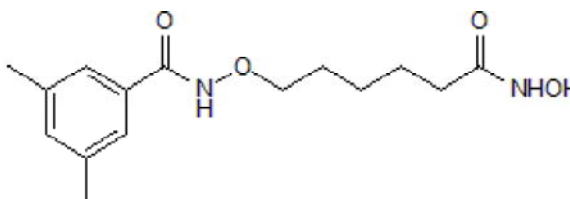
Batch No.: 1

CAS Number: 1418033-25-6

IUPAC Name: *N*-[[6-(Hydroxyamino)-6-oxohexyl]oxy]-3,5-dimethylbenzamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₅H₂₂N₂O₄
Batch Molecular Weight: 294.35
Physical Appearance: White solid
Solubility: DMSO to 100 mM
 ethanol to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

Melting Point: At 134°C
HPLC: Shows 98% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

	Carbon Hydrogen Nitrogen		
Theoretical	61.21	7.53	9.52
Found	61.2	7.45	9.36

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

Selective histone deacetylase (HDAC) 4 and HDAC5 inhibitor (IC₅₀ values are 4.22, 11.9, 55.7, 320, 852, 881, and 1278 nM for HDAC 5, 4, 6, 1, 11, 2, and 8, respectively). Demonstrates activity against chemoresistant cancer cell lines in an MTT assay for cytotoxicity using human ovarian cancer cell lines A2780 and cisplatin resistant A2780CisR (IC₅₀ = 0.49 and 0.32 μM respectively).

Physical and Chemical Properties:

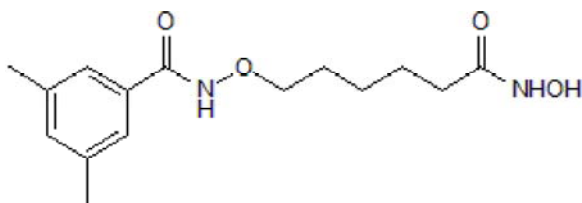
Batch Molecular Formula: C₁₅H₂₂N₂O₄

Batch Molecular Weight: 294.35

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



References:

Marek et al (2013) Histone deacetylase (HDAC) inhibitors with a novel connecting unit linker region reveal a selectivity profile for HDAC4 and HDAC5 with improved activity against chemoresistant cancer cells. *J.Med.Chem.* **56** 427. PMID: 23252603.

Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

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