

Certificate of Analysis

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Product Name: NCH 51

Catalog No.: 3747

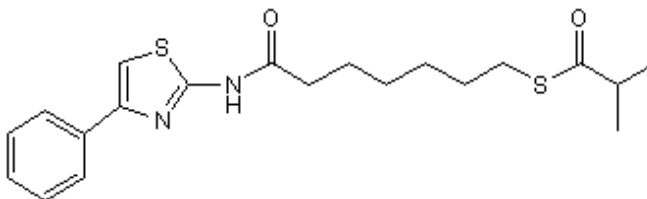
Batch No.: 2

CAS Number: 848354-66-5

IUPAC Name: 2-Methylpropanethioic acid S-[7-oxo-7-[(4-phenyl-2-thiazolyl)amino]heptyl] ester

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₀H₂₆N₂O₂S₂
Batch Molecular Weight: 390.56
Physical Appearance: White solid
Solubility: DMSO to 100 mM
 ethanol to 25 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.9% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	61.5	6.71	7.17
Found	61.27	6.52	7.09

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

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Description:

Histone deacetylase (HDAC) inhibitor. Inhibits growth of various cancer cells in vitro (EC₅₀ = 1.1 - 9.1 μM).

Physical and Chemical Properties:

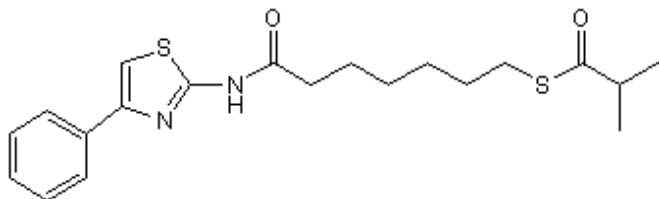
Batch Molecular Formula: C₂₀H₂₆N₂O₂S₂

Batch Molecular Weight: 390.56

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 25 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.

References:

Sanda et al (2007) Proteome analyses of the growth inhibitory effects of NCH-51, a novel histone deacetylase inhibitor, on lymphoid malignant cells. *Leukemia* **21** 2344. PMID: 17690692.

Suzuki et al (2005) Novel inhibitors of human histone deacetylases: design, synthesis, enzyme inhibition, and cancer cell growth inhibition of SAHA-based non-hydroxamates. *J.Med.Chem.* **48** 1019. PMID: 15715470.

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