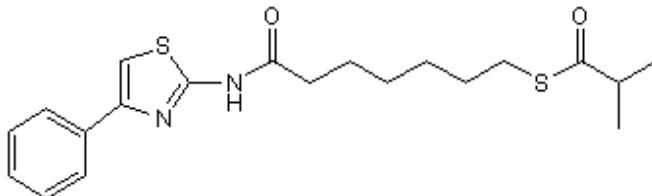


**Certificate of Analysis**[www.tocris.com](http://www.tocris.com)**Product Name:** NCH 51**Catalog No.:** 3747**Batch No.:** 2**CAS Number:** 848354-66-5**IUPAC Name:** 2-Methylpropanethioic acid S-[7-oxo-7-[(4-phenyl-2-thiazolyl)amino]heptyl] ester**1. PHYSICAL AND CHEMICAL PROPERTIES****Batch Molecular Formula:** C<sub>20</sub>H<sub>26</sub>N<sub>2</sub>O<sub>2</sub>S<sub>2</sub>**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**<sup>1</sup>H 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

**bio-techne.com**

info@bio-techne.com

techsupport@bio-techne.com

**North America**

Tel: (800) 343 7475

**China**

info.cn@bio-techne.com

Tel: +86 (21) 52380373

**Europe Middle East Africa**

Tel: +44 (0)1235 529449

**Rest of World**[www.tocris.com/distributors](http://www.tocris.com/distributors)

Tel: +1 612 379 2956

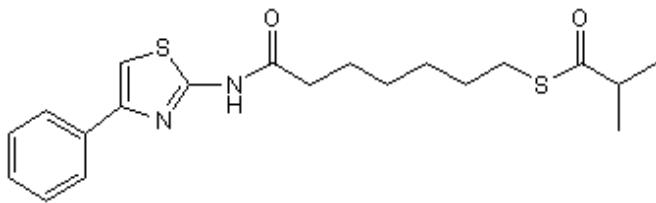
**Product Name:** NCH 51**Catalog No.:** 3747**Batch No.:** 2**CAS Number:** 848354-66-5**IUPAC Name:** 2-Methylpropanethioic acid S-[7-oxo-7-[(4-phenyl-2-thiazolyl)amino]heptyl] ester**Description:**

Histone deacetylase (HDAC) inhibitor. Inhibits growth of various cancer cells in vitro ( $EC_{50} = 1.1 - 9.1 \mu M$ ).

**Physical and Chemical Properties:**Batch Molecular Formula:  $C_{20}H_{26}N_2O_2S_2$ 

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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**bio-techne.com**info@bio-techne.com  
techsupport@bio-techne.com**North America**

Tel: (800) 343 7475

**China**info.cn@bio-techne.com  
Tel: +86 (21) 52380373**Europe Middle East Africa**

Tel: +44 (0)1235 529449

**Rest of World**www.tocris.com/distributors  
Tel: +1 612 379 2956