

Certificate of Analysis

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Product Name: TCS HDAC6 20b

Catalog No.: 4805

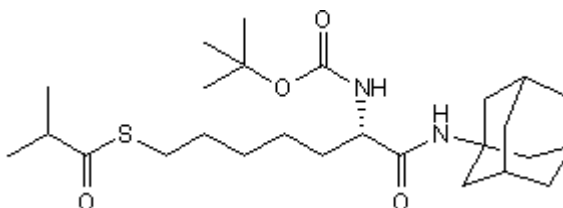
Batch No.: 2

CAS Number: 956154-63-5

IUPAC Name: 2-Methylpropanethioic acid-S-[(6S)-6-[[[(1,1-dimethylethoxy)carbonyl]amino]-7-oxo-7-(tricyclo[3.3.1.1^{3,7}]dec-1-ylamino)heptyl] ester

1. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|-----------------------------------|---|
| Batch Molecular Formula: | C ₂₆ H ₄₄ N ₂ O ₄ S |
| Batch Molecular Weight: | 480.7 |
| Physical Appearance: | White Oily foam |
| Solubility: | DMSO to 100 mM ethanol to 100 mM |
| Storage: | Store at -20°C |
| Batch Molecular Structure: | |



2. ANALYTICAL DATA

| | |
|---------------------------|--|
| TLC: | R _f = 0.4 (Ethyl acetate:Petroleum ether [1:4]) |
| HPLC: | Shows 98.6% purity |
| ¹H NMR: | Consistent with structure |
| Mass Spectrum: | Consistent with structure |

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

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Description:

Selective inhibitor of histone deacetylase 6 (HDAC6). Inhibits HCT116 growth in combination with taxol (Cat. No. 1097). Also inhibits growth of MCF-7 cells stimulated by estrogen.

Physical and Chemical Properties:

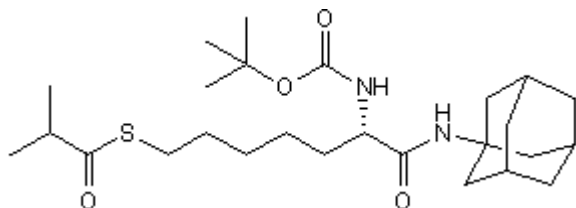
Batch Molecular Formula: C₂₆H₄₄N₂O₄S

Batch Molecular Weight: 480.7

Physical Appearance: White Oily foam

Minimum Purity: >98%

Batch Molecular Structure:



References:

Itoh et al (2007) Design, synthesis, structure-selectivity relationship, and effect on human cancer cells of a novel series of histone deacetylase 6-selective inhibitors. *J.Med.Chem.* **50** 5425. PMID: 17929798.

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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