

**Product Name:** *N*-Acetyl-L-leucyl-L-leucyl-L-methional

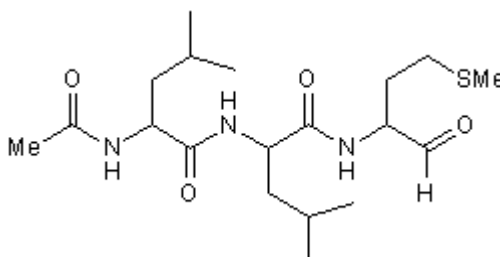
**Catalog No.:** 0384

**Batch No.:** 5

**CAS Number:** 136632-32-1

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>19</sub>H<sub>35</sub>N<sub>3</sub>O<sub>4</sub>S  
**Batch Molecular Weight:** 401.56  
**Physical Appearance:** Off-white solid  
**Solubility:** ethanol to 10 mM  
DMSO to 100 mM  
**Storage:** Store at -20°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	56.83	8.79	10.46
Found	56.9	8.81	10.46

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

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**Catalog No.:** 0384

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**Description:**

Very potent inhibitor of cathepsin L ( $K_i = 0.6$  nM) and the strongest inhibitor of cathepsin B ( $K_i = 100$  nM) amongst the peptide aldehydes. Also inhibits processing of malaria aspartic hemoglobinas plasmepsins I and II in vitro.

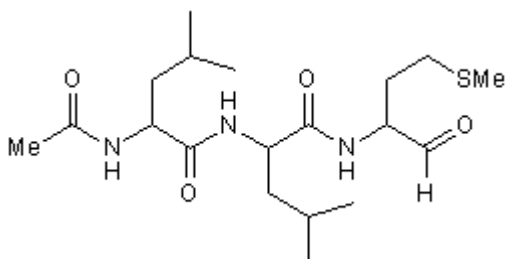
**Physical and Chemical Properties:**

Batch Molecular Formula:  $C_{19}H_{35}N_3O_4S$

Batch Molecular Weight: 401.56

Physical Appearance: Off-white solid

**Batch Molecular Structure:**



**Storage:** Store at -20°C

**Solubility & Usage Info:**

ethanol to 10 mM

DMSO 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.

**References:**

**Sasaki et al** (1990) Inhibitory effect of di- and tripeptidyl aldehydes on calpains and cathepsins. *J.Enzyme Inhib.* **3** 195. PMID: 2079636.

**Francis et al** (1997) Biosynthesis and maturation of the malaria aspartic hemogloninases plasmepsins I and II. *J.Biol.Chem.* **272** 14961. PMID: 9169469.

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