

Product Name: (Z-LL)₂ ketone

Catalog No.: 5630

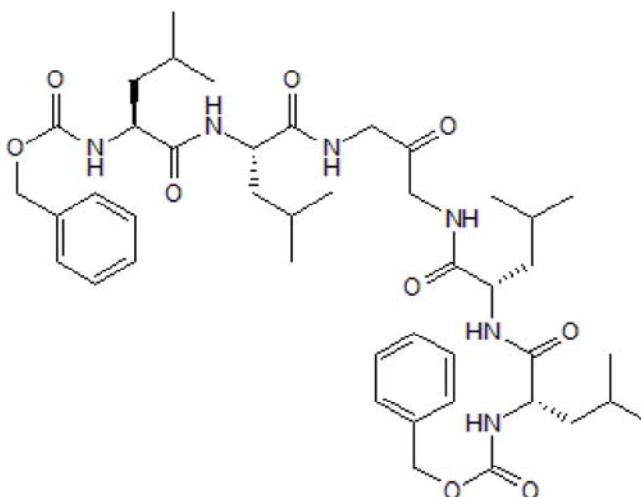
Batch No.: 1

CAS Number: 313664-40-3

IUPAC Name: 2,2'-(2-Oxo-1,3-propanediyl)bis[N-[(phenylmethoxy)carbonyl]-L-leucyl-L-leucinamide]

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₄₃H₆₄N₆O₉.
Batch Molecular Weight: 809
Physical Appearance: White solid
Solubility: DMSO to 10 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.5% purity
Optical Rotation: [α]_D = -46.2 (Concentration = 1.35, Solvent = Acetic acid)
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	63.84	7.97	10.39
Found	63.82	8.02	10.37

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

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Description:

Putative inhibitor of signal peptide peptidase; inhibits p-Prl signal peptide processing (IC₅₀ = 50 nM). Exhibits no effect on signal peptidases or proteasome activity. Reduces HSV-1 replication *in vitro* and *in vivo*.

Physical and Chemical Properties:

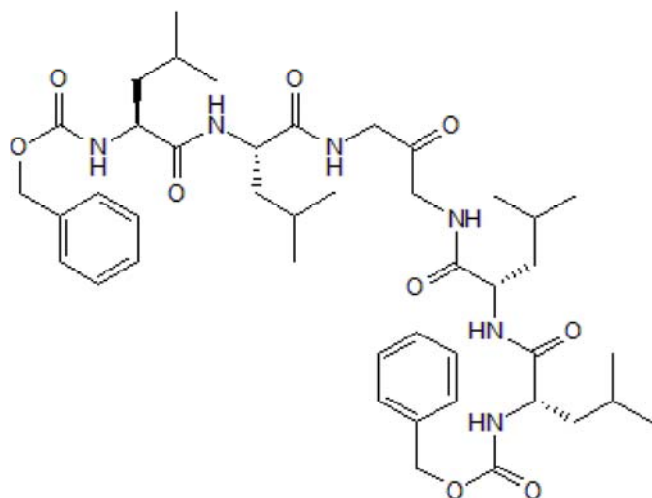
Batch Molecular Formula: C₄₃H₆₄N₆O₉.

Batch Molecular Weight: 809

Physical Appearance: White solid

Minimum Purity: >95%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 10 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:

Allen et al (2014) Inhibitors of signal peptide peptidase (SPP) affect HSV-1 infectivity *in vitro* and *in vivo*. *Exp.Eye Res.* **123** 8. PMID: 24768597.

Weihofen et al (2003) Targeting presenilin-type aspartic protease signal peptide peptidase with γ -secretase inhibitors. *J.Biol.Chem.* **278** 16528. PMID: 12621027.

Weihofen et al (2000) Release of signal peptide fragments into the cytosol requires cleavage in the transmembrane region by a protease activity that is specifically blocked by a novel cysteine protease inhibitor. *J.Biol.Chem.* **275** 30951. PMID: 10921927.

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