Certificate of Analysis

Product Name: **(*R*)-MG 132** **Catalog No.: 6033** **Batch No.: 1**

CAS Number: 1211877-36-9

IUPAC Name: *N*-[(Phenylmethoxy)carbonyl]-L-leucyl-*N*-[(1*S*)-1-formyl-3-methylbutyl]-D-leucinamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{26}H_{41}N_3O_5$

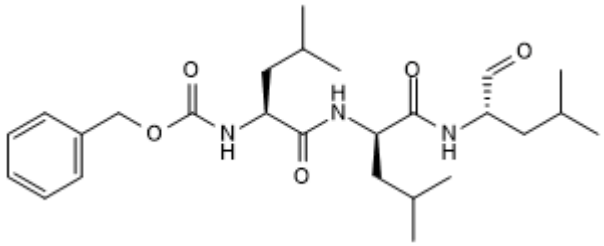
Batch Molecular Weight: 475.63

Physical Appearance: White solid

Solubility: DMSO to 100 mM
ethanol to 20 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.3% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	65.66	8.69	8.83
Found	65.83	8.56	8.68

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Product Information

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Description:

Potent 20S proteasome inhibitor (IC_{50} = 0.22 nM). Exhibits cytostatic and cytotoxic effects in tumor cells in vitro.

Physical and Chemical Properties:

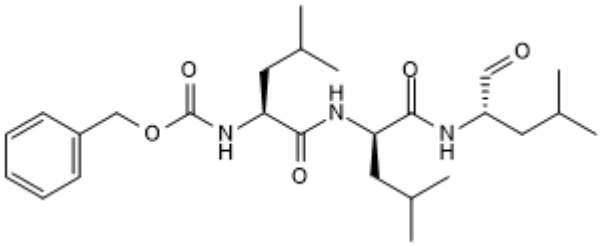
Batch Molecular Formula: $C_{26}H_{41}N_3O_5$

Batch Molecular Weight: 475.63

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM
ethanol to 20 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:

Mroczkiewicz *et al* (2010) Studies of the synthesis of all stereoisomers of MG-132 proteasome inhibitors in the tumor targeting approach. J.Med.Chem. ***53*** 1509. PMID: 20112914.