

(R)-MG-132

Chemical Properties

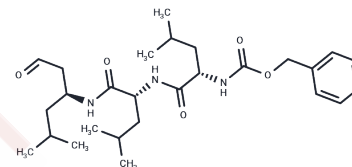
CAS No. : 1211877-36-9

Formula: C₂₆H₄₁N₃O₅

Molecular Weight: 475.62

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	(R)-MG-132 (Z-Leu-D-leu-leu-al) is the enantiomer of MG-132.
Targets(IC50)	Proteasome

Solubility Information

Solubility	DMSO: 150 mg/mL (315.38 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 1 mg/mL (2.1 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1025 mL	10.5126 mL	21.0252 mL
5 mM	0.4205 mL	2.1025 mL	4.205 mL
10 mM	0.2103 mL	1.0513 mL	2.1025 mL
50 mM	0.0421 mL	0.2103 mL	0.4205 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Mroczkiewicz M, et al. Studies of the synthesis of all stereoisomers of MG-132 proteasome inhibitors in the tumor targeting approach. J Med Chem. 2010 Feb 25;53(4):1509-18.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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