

MG-132 (Synonyms: Z-LLL-al, Z-Leu-Leu-Leu-CHO)

Catalog #: EBC51001
Biological Activity
Chemical Name *N-[(Phenylmethoxy)carbonyl]-L-leucyl-N-[(1S)-1-formyl-3-methylbutyl]-L-leucinamide*
Application MG-132 is a potent cell-permeable 20S proteasome inhibitor

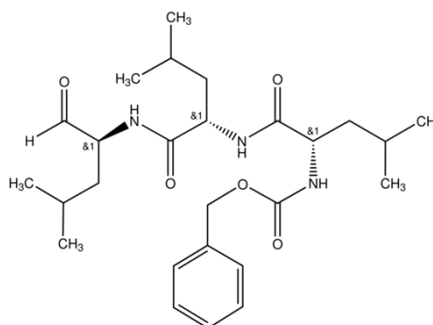
Target & IC₅₀
 NF-κB: IC₅₀ = 3 μM
 Suc-LLVY-AMC: IC₅₀ = 0.85 μM
 Z-LLL-AMC: IC₅₀ = 0.1 μM
 IκBα: IC₅₀ = 3 μM

CAS No. 133407-82-6

Purity ≥98.0%

Molecular Weight 475.62

Molecular Formula C₂₆H₄₁N₃O₅
Shipping Gel Pack

Storage Store at -20° C

Solubility

DMSO: 93 mg/mL (139.1 mM)

PS: < 1 mg/ml refers to the product insoluble

Preparing Stock Solutions

Concentration / Solvent Volume / Mass	1 mg	5 mg	10 mg
1 mM	2.1025 ml	10.5126 ml	21.0252 ml
5 mM	0.4205 ml	2.1025 ml	4.2050 ml
10 mM	0.2103 ml	1.0513 ml	2.1025 ml
50 mM	0.0421 ml	0.2103 ml	0.4205 ml

Description

MG-132 (Z-Leu-Leu-Leu-al) is a potent proteasome and calpain inhibitor with IC₅₀s of 100 nM and 1.2 μM, respectively. MG-132 effectively blocks the proteolytic activity of the 26S proteasome complex. MG-132, a peptide aldehyde, also is an autophagy activator. MG-132 also induces apoptosis.

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