Cat No. 15-G73

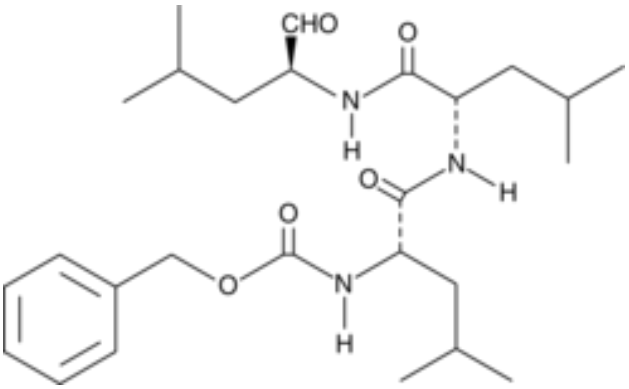
MG132

5mg

For research purposes only

MG132 is a proteasome inhibitor. Proteasome are found at high concentrations in eukaryotic cells, which causes protein degradation. This inhibitor enhances thermotolerance in a variety of cell types. MG132 also activates JNK-1 which may lead to apoptosis under cell stress. It has been shown to be involved with the cell cycle, in controlling inflammatory processes and gene expression.

TECHNICAL INFORMATION



Other Names: N-[(phenylmethoxy)carbonyl]-L-leucyl-N-[(ls)-l-formyl-3-methylbutyl]-L-leucinamide

Chemical Formula: $C_{26}H_{41}N_3O_5$

CAS Number: 133407-82-6

Molecular Weight: 475.6

Purity: >98%

Appearance: Crystalline solid

Solubility: DMSO

STORAGE AND HANDLING

Storage: Store at –20°C and protected from light. Following reconstitution, store aliquots at -20°C.

Stability: Stock solutions stable at -20°C for up to 2 years.

Shipping Conditions: Shipped at room temperature.

PRODUCT USE

Soluble in DMSO. Soluble at >95mg/ml. Incubate in a 37°C water bath for 5 minutes if precipitate is observed.

REFERENCES

1. Manfe et al. (2012). miR-122 regulates p53/Akt signaling and the chemotherapy-induced apoptosis in cutaneous T-cell lymphoma. PubMed.gov.
2. Sung et al. (2012). The proteasome inhibitor MG132 potentiates TRAIL receptor agonist-induced apoptosis by stabilizing tBid and Bik in human head and neck-squamous cell carcinoma cells. PubMed.gov.