WEST BIOSCIENCE

Data Sheet

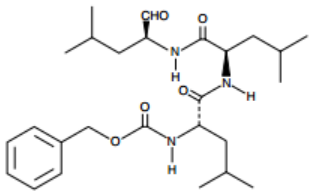
(R)-MG132

Catalog #: w37237

Lot #: 140724

Size: 1 mg

Structure:



CAS Registry #: 1211877-36-9

Purity: ≥98%

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

Molecular Weight: 475.6

Description: (*R*)-MG132 is a potent, cell permeable and reversible inhibitor of proteasomes. It can inhibit proteasome activity in lysates of J558L multiple myeloma cells and EMT6 breast cancer cells. In comparison to (S)-MG132, the (R)-MG132 stereoisomer is a more effective inhibitor of chymotrypsin-like (ChTL), trypsin-like (TL), and peptidylglutamyl peptide hydrolyzing proteasome (PGPH) activities.

Appearance: A crystalline solid

Solubility: Soluble in ethanol, DMSO and DMF, purged with an inert gas. Solubility in these solvents is approximately 25 mg/ml. Do not store aqueous solutions for more than one day.

Biological Activity: (R)-MG132 inhibits ChTL, TL and PGPH with IC_{50} values of 0.22 µM, 34.4 µM, and 2.95 µM, respectively.

Storage/Stability: Store at or below -20℃ for up to two years.

Quality Control: The purity was determined by HPLC analysis.

Reference(s):

1. Lee, D.H., *et al., Trends Cell Biol.* 1998;**8**:397-403
2. Elliot, P.J., *et al., J. Mol. Med.* 2003;**81**:235-245
3. Mroczkiewicz, M., *et al., J. Med. Chem.* 2010;**53**:1509-1518.

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