

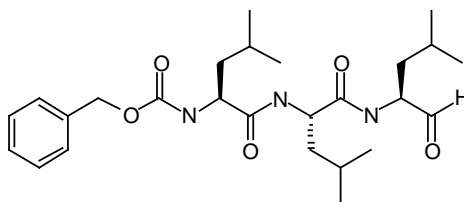
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MATERIAL DATA SHEET**Z-Leu-Leu-Leu-CHO (MG-132)**

Cat. # I-130

Peptide aldehydes form a covalent hemiacetal adduct with the 20S proteasome, inhibiting the chymotrypsin-like peptidase activity ($IC_{50} = 100$ nM). These inhibitors are reversible and cell-permeable, and also inhibit the activity of calpains ($IC_{50} = 1.2$ μ M) and cathepsins. Inhibits TNF- α -induced NF- κ B activation and I κ B α degradation. Induces neurite outgrowth in PC12 cells and has anticancer properties *in vitro*.

Product Information**Quantity:** 5 mg**Formula:** C₂₆H₄₁N₃O₅ **FW:** 475.63**Structure:****Physical/Chemical Characteristics****Solubility:** Soluble to 100 mM in both DMSO and Ethanol
Note: Pellet may have oily appearance.**Purity:** > 95% by HPLC.**Activity:** $K_i = 4.2$ nM vs. SDS-activated 20S proteasome.**Use & Storage****Use:** Add from DMSO stock directly to *in vitro* or *in vivo* assays at desired concentration. Pre-incubation with compound prior to assay is recommended for maximal effect.**Storage:** Store stock solution at -20°C. Avoid multiple freeze/thaw cycles.

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Literature

- References:** Adams J., *et al.* (1998) Bioorg. Med. Chem. Lett. **8**:333-338
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