Lot # XXXXX

BostonBiochem

MATERIAL DATA SHEET

Z-Leu-Leu-Nva-CHO (MG-115)
Cat. # I-135

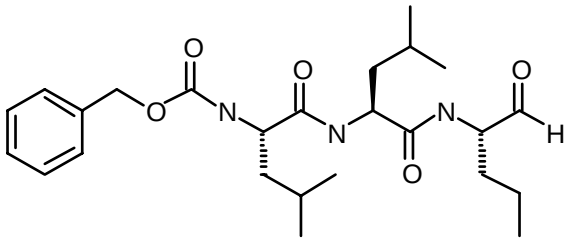
Peptide aldehydes form a covalent hemiacetal adduct with the 20S proteasome, inhibiting the chymotrypsin-like peptidase activity. These inhibitors are reversible and cell-permeable, and also inhibit the activity of calpains and cathepsins.

Product Information

Quantity: 5 mg

Formula: $C_{25}H_{39}N_3O_{5b}$ **FW:** 461.61

Structure:



Physical/Chemical Characteristics

Solubility: Soluble in DMSO up to 15 mg/ml. Pellet dry compound prior to reconstitution.

Purity: > 95% by HPLC. Structure confirmed by NMR.

Activity: K_i = 20 nM vs. SDS-activated 20S proteasome.

Use & Storage

Use: Add from DMSO stock directly to *in vitro* or *in vivo* assay 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.

Literature

References:

Adams J., *et al.* (1998) Bioorg. Med. Chem. Lett. **8**:333-338
Lee D.H. and Goldberg A.L. (1998) Tren. Cell. Biol. **8**:397-403
Lee D.H. and Goldberg A.L. (1996) J. Biol. Chem. **271**:27280-27284
McCormack T.A, *et al.* (1998) Biochem. **37**:7792-7800
Wilk S., *et al.*, (1993) Enz. Prot. **47**:306-313

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One Kendall Square, Building 600, PMB 319 Cambridge, MA 02139 Phone: 617-241-7072 FAX: 617-492-3565
www.bostonbiochem.com