Lot # XXXX

BostonBiochem

MATERIAL DATA SHEET

Z-Leu-Leu-Phe-CHO
Cat. # I-150

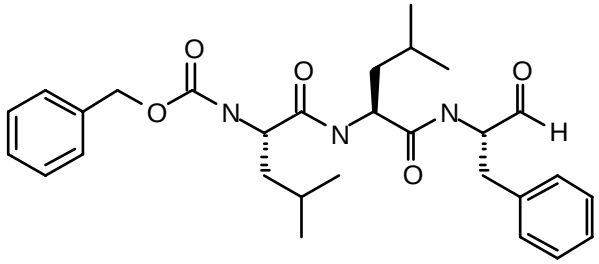
Peptide aldehydes form a covalent hemiacetal adduct with the 20S proteasome, inhibiting the chymotrypsin-like peptidase activity. These inhibitors are reversible and cell-permeable, and also inhibit the activity of calpains and cathepsins.

Product Information

Quantity: 1 mg

Formula: $C_{29}H_{39}N_3O_5$ **FW:** 509.70

Structure:



Physical/Chemical Characteristics

Solubility: Soluble and stable in DMSO up to 15 mg/ml.

Purity: > 95% by HPLC. Structure confirmed by ^{1}H-NMR.

Use & Storage

Storage: Store DMSO stock at -20°C. Avoid multiple freeze/thaw cycles.

Activity: 20S proteasome K_i=350 nM

Literature

References:
Myung J., *et al.* (2001) Med. Res. Rev. **4**:245-273
Schauer S.L., *et al.* (1998) J. Immunol. **160**:4398-4405
Vinitsky A., *et al.* (1992) Biochem. **31**:9421-9428
Vinitsky A., *et al.* (1994) J. Biol. Chem. **269**:29860-29860

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