

Lot # XXXXX

BostonBiochem

## MATERIAL DATA SHEET

### Epoxomicin, *synthetic* Cat. # I-110

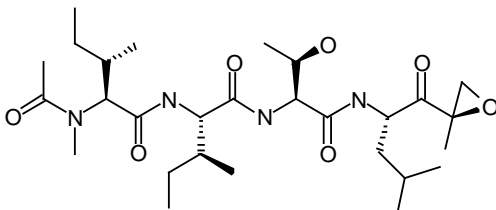
Cell-permeable, potent, selective and irreversible proteasome inhibitor initially isolated as natural product from an *Actinomycetes* strain. Predominantly inhibits the chymotrypsin-like activity of the proteasome.

#### Product Information

**Quantity:** 200 µg | 1 mg

**Formula:** C<sub>28</sub>H<sub>50</sub>N<sub>4</sub>O<sub>7</sub> **FW:** 554.7

**Structure:**



#### Physical/Chemical Characteristics

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

**Purity:** > 98% by HPLC. Structure confirmed by <sup>1</sup>H-NMR.

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

**Activity:**  $k_{obs}/[I] = 25,000 \text{ M}^{-1} \text{ s}^{-1}$  versus 20S proteasome.

#### Literature

**References:** Kim K.B., *et al.* (1999) *Bioorgan. Med. Chem. Lett.* **9**: 3335  
Sin N., *et al.* (1999) *Bioorgan. Med. Chem. Lett.* **9**: 2283

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