Lot # XXXXX

BostonBiochem

MATERIAL DATA SHEET

Suc-Leu-Leu-Val-Tyr-AMC (Suc-LLVY-AMC)
Cat # S-280

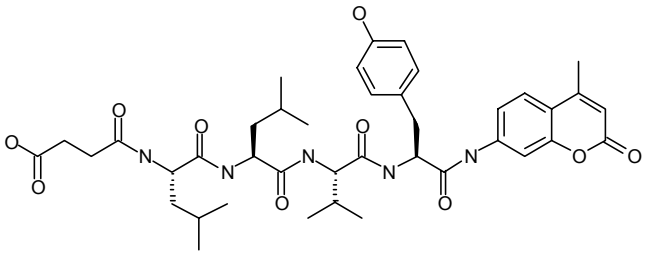
Fluorogenic substrate for measuring the chymotrypsin-like peptidase activity of the 20S proteasome. The 20S complex is composed of 28 subunits, arranged in an $\alpha_7\beta_7\beta_7\alpha_7$ stoichiometry. Each of the two internal β-type rings harbors three different proteolytically active sites, provided by the amino-terminal residues of three constitutive subunits: β1 (post-glutamyl peptide hydrolase site), β2 (trypsin-like site) and β5 (chymotrypsin-like site).

Product Information

Quantity: 5 mg

Formula: $C_{40}H_{53}N_5O_{10}$ **Formula Weight:** 763.90

Structure:



Physical/Chemical Characteristics

Solubility: Soluble in DMSO. For best results, pellet dry compound prior to reconstitution. Solubilize at desired stock concentration.

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

Use & Storage

Use: Add from DMSO stock directly to *in vitro* or *in vivo* assay at desired concentration. Typical concentrations range from 10-100 µM. (λ_{ex}: 380nm; λ_{em}: 460 nm)

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

Literature

References:

Arendt C. S. and Hochstrasser M. (1997) Proc. Natl. Acad. Sci. **94**:7156-7161
Chen P. and Hochstrasser M. (1996) Cell **86**:961-972
Coux O., *et al.* (1996) Ann. Rev. Biochem. **65**:801–847
Dick T. P., *et al* (1998) J. Biol. Chem. **273**:25637-25646
Stein R.L., *et al.* (1996) Biochem. 35:3899-3908

For Laboratory Research Use Only, Not For Use in Humans

840 Memorial Drive, Cambridge, MA 02139 Phone: 617-241-7072 FAX: 617-492-3565
www.bostonbiochem.com