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 $\alpha_2\beta_7\beta_7\alpha_7$ stoichiometry. Each of the two internal $\beta$-type rings harbors three different proteolytically active sites, provided by the amino-terminal residues of three constitutive subunits: $\beta 1$ (post-glutamyl peptide hydrolase site), $\beta 2$ (trypsin-like site) and $\beta 5$ (chymotrypsin-like site).

**Product Information**

Quantity: 5 mg
Formula: $C_{40}H_{53}N_5O_{10}$  
Formula Weight: 763.90
Structure:

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**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.

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**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. ($\lambda_{ex}$: 380 nm; $\lambda_{em}$: 460 nm)
Storage: Store DMSO stock at -20°C. Avoid multiple freeze/thaw cycles.

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**Literature**

References:

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