**Catalog # 10-2971**

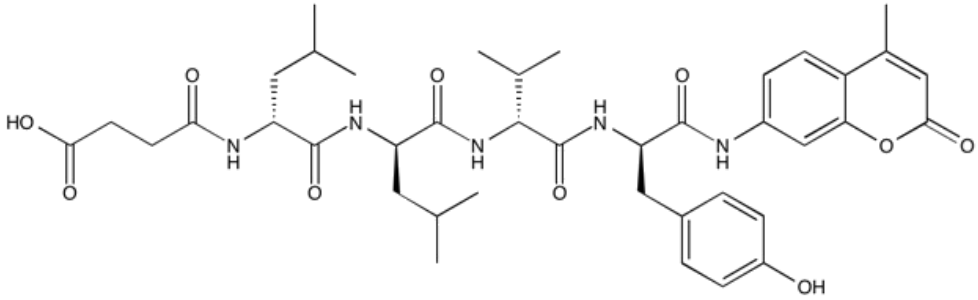
**Suc-Leu-Leu-Val-Tyr-AMC**

CAS# 94367-21-2

Suc-LLVY-AMC

Proteasome Substrate III (Fluorogenic)

Lot # X101437



Fluorogenic substrate for the chymotryptic activity of the 20S proteasome[1] and other chymotrypsin-like proteases, as well as calpains[2]. A commonly used substrate for assaying proteasomal enzymatic activity.[3,4] Excitation max.: 360 nm; emission max.: 460 nm.


1) Stein *et al*. (1996), *Kinetic characterization of the chymotryptic activity of the 20S proteasome*; Biochemistry, **35** 3899
2) Sasaki *et al*. (1984), *Comparative specificity and kinetic studies on porcine calpain I and calpain II with naturally occurring peptides and synthetic fluorogenic substrates*; J. Biol. Chem., **259** 12489
3) Hamouda *et al*. (2014), *The small heat shock protein B8 (HSPB8) confers resistance to bortezomib by promoting autophagic removal of misfolded proteins in multiple myeloma cells;* Oncotarget, **5** 6252
4) Min *et al*. (2017), *USP14 inhibitor attenuates cerebral ischemia/reperfusion-induced neuronal injury in mice*; J. Neurochem,, **140** 826


## PHYSICAL DATA

| | |
|---|---|
| Molecular Weight: | 763.88 |
| Molecular Formula: | $C_{40}H_{53}N_5O_{10}$ |
| Purity: | 98% by HPLC |
| | NMR: (Conforms) |
| Solubility: | DMSO (up to 20 mg/ml) or DMF (up to 10 mg/ml) |
| Physical Description: | Lyophilized solid |
| Storage and Stability: | Store as supplied desiccated at -20°C for up to 1 year from the date of purchase. Solutions in DMSO or DMF may be stored at -20°C for up to 1 month. |




Focus Biomolecules LLC 400 Davis Drive, Suite 600 Plymouth Meeting PA 19462

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