



**Catalog # 10-2971**

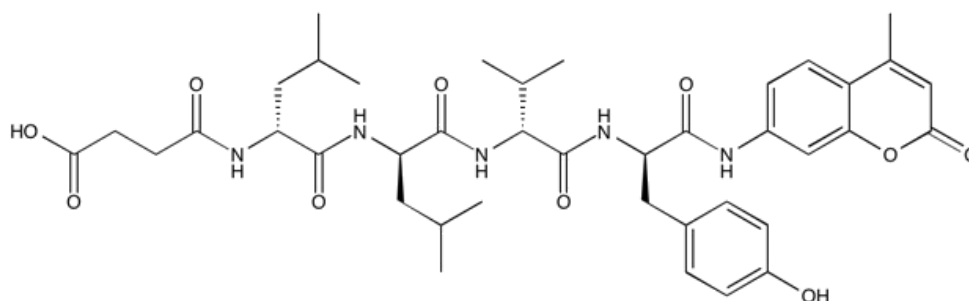
**Suc-Leu-Leu-Val-Tyr-AMC**

CAS# 94367-21-2

Suc-LLVY-AMC

Proteasome Substrate III (Fluorogenic)

Lot # X101437



Fluorogenic substrate for the chymotryptic activity of the 20S proteasome<sup>1</sup> and other chymotrypsin-like proteases, as well as calpains<sup>2</sup>. A commonly used substrate for assaying proteasomal enzymatic activity.<sup>3,4</sup> 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 <sub>40</sub> H <sub>53</sub> N <sub>5</sub> O <sub>10</sub>
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.

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