### Suc-Leu-Leu-Val-Tyr-AMC

Cat. No. SBB-PS0010 Lot. No. 163060010

# South Bay Bío

### Suc-LLVY-AMC

Suc-LLVY-AMC a 7-amino-4-methylcoumarin (AMC) labeled fluorogenic substrate can be used to measure the chymotrypsin-like activity of the 20S and 26S proteasome as well as calpains and other chymotrypsin-like proteases. Working concentrations of this substrate is 20-50  $\mu$ M. Cleavage of the peptide by the enzymes liberates the fluorophore AMC which generates strong increase in fluorescence fluorescent that can be monitored fluorimetrically at Ex=345 nm and Em=445 nm.

### **Product Information**

Quantity: 2 mg Molecular Weight: 763.9 Da

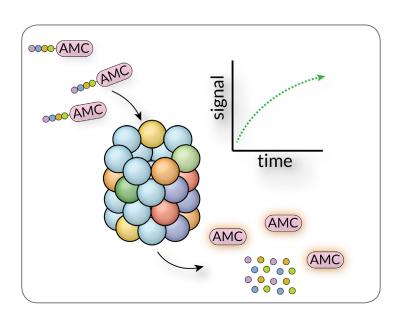
Concentration: Lyophilized Purity: >95% by HPLC

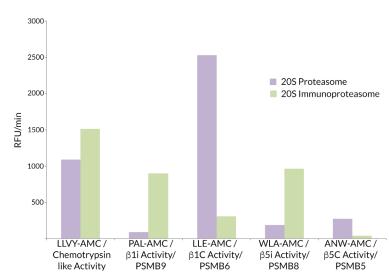
Solubility: 10mM in DMSO Storage: -20C to -80C

Ex/Em (nm): 345/445

Avoid multiple freeze / thaw cycles

### Quality Control and Performance Data





## 20S Immunoproteasome vs. 20S Constitutive Proteasome Activity.

LLVY-AMC exhibits a high specific activity for both immuno and constitutive proteasome compared to other substrates. Specific activities are higher when using immunoproteasome.

### Suc-LLVY-AMC, Chemical Structure.

Structure of Suc\_LLVY-AMC, CAS # 94367-21-2

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### References

- 1) Dammer, E. et al. (2011). Polyubiquitin Linkage Profiles in Three Models of Proteolytic Stress Suggest the Etiology of Alzheimer Disease. J Biol Chem doi: 10.1074/jbc.M110.149633.
- 2) Gallery, M. et al. (2007). The JAMM motif of human deubiquitinase Pohi is essential for cell viability. Mol Cancer Ther 6, 262.
- 3) Cardiac proteasome functional insufficiency plays a pathogenic role in diabetic cardiomyopathy: J. Li, et al.; J. Mol. Cell. Cardiol. 102, 53 (2016), Abstract;

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