Ac-Pro-Ala-Leu-AMC

Cat. No.	SSB-PS0007
Lot. No.	163060009

Ac-PAL-AMC

Ac-PAL-AMC (Acetyl-Pro-Ala-Leu-AMC) 7-amino-4-methylcoumarin labeled is а fluorogenic peptidyl substrate hydrolyzed by the ßli subunit of the 20S immunoproteasome. Peptidylglutamyl-peptide hydrolyzing (Caspaselike) activity can be measured using a working concentration of 20-50µM substrate. This substrate is specific to the immunoproteasome, and is not hydrolyzed efficiently by the constitutive proteasome. Cleavage of this peptide by the immunoproteasome or other enzymes liberates the fluorophore AMC causing a strong fluorescent signal which is detected at an Excitation wavelength of 345nm and Emission wavelength of 445nm. 20S Proteasome enzyme requires activation with 0.03% SDS in the assay buffer.





Ac-PAL-AMC, Chemical Structure.

Structure of Ac-PAL-AMC, 498.6 Da, Ex=345nM, Em=445nM.

South Bay Bio Product Information

Quantity: 2 mg Molecular Weight: 498.6 Da

Concentration: Lyophilized Purity: >95% by HPLC

Solubility: 10mM in DMSO Ex/Em (nm): 345/445

Storage: Store at 4°C after product arrival. After preparing a stock in DMSO (≥10 mM) store product at -20°C to -80°C. It is recommended to make multiple aliquots after the first thaw to ensure best performance.



20S Immunoproteasome vs. 20S Constitutive Proteasome Activity.

PAL-AMC exhibits a high specific activity and preference for 20S immunoproteasome compared to constitutive 20S proteasome.

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