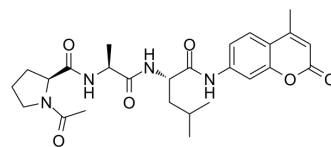


## Ac-PAL-AMC

Cat. No.:	HY-123052		
CAS No.:	1431362-79-6		
Molecular Formula:	C <sub>26</sub> H <sub>34</sub> N <sub>4</sub> O <sub>6</sub>		
Molecular Weight:	498.57		
Target:	Proteasome		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (200.57 mM; Need ultrasonic)				
	Preparing Stock Solutions	Solvent Concentration \ Mass	1 mg	5 mg	10 mg
		1 mM	2.0057 mL	10.0287 mL	20.0574 mL
		5 mM	0.4011 mL	2.0057 mL	4.0115 mL
		10 mM	0.2006 mL	1.0029 mL	2.0057 mL
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (5.01 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (5.01 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (5.01 mM); Clear solution				

### BIOLOGICAL ACTIVITY

Description	Ac-PAL-AMC is a fluorogenic substrate specific for 20S proteasome LMP2/β1i activity <sup>[1]</sup> .
IC <sub>50</sub> & Target	LMP2/β1i <sup>[1]</sup>

### REFERENCES

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[1]. Basler M, et al. Why the structure but not the activity of the immunoproteasome subunit low molecular mass polypeptide 2 rescues antigen presentation. J Immunol. 2012 Aug 15;189(4):1868-77.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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