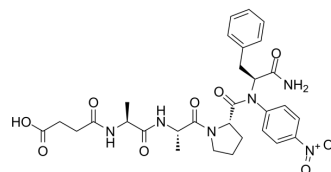


## Suc-AAPF-pNA

<b>Cat. No.:</b>	HY-P2573
<b>CAS No.:</b>	70967-97-4
<b>Molecular Formula:</b>	C <sub>30</sub> H <sub>36</sub> N <sub>6</sub> O <sub>9</sub>
<b>Molecular Weight:</b>	624.64
<b>Sequence:</b>	{Suc}-Ala-Ala-Pro-Phe-{pNA}
<b>Sequence Shortening:</b>	Suc-AAPF-pNA
<b>Target:</b>	Fluorescent Dye
<b>Pathway:</b>	Others
<b>Storage:</b>	Sealed storage, away from moisture and light, under nitrogen
	Powder    -80°C    2 years
	-20°C    1 year



\* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light, under nitrogen)

### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 100 mg/mL (160.09 mM; Need ultrasonic)					
	<b>Preparing Stock Solutions</b>	<b>Solvent</b> \ <b>Concentration</b>	<b>Mass</b>			
				<b>1 mg</b>	<b>5 mg</b>	<b>10 mg</b>
		<b>1 mM</b>		1.6009 mL	8.0046 mL	16.0092 mL
		<b>5 mM</b>		0.3202 mL	1.6009 mL	3.2018 mL
	<b>10 mM</b>		0.1601 mL	0.8005 mL	1.6009 mL	
Please refer to the solubility information to select the appropriate solvent.						
<b>In Vivo</b>	<ol style="list-style-type: none"> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline Solubility: ≥ 2.5 mg/mL (4.00 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (4.00 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.5 mg/mL (4.00 mM); Clear solution</li> </ol>					

### BIOLOGICAL ACTIVITY

<b>Description</b>	Suc-AAPF-pNA (Suc-Ala-Ala-Pro-Phe-pNA) is a chromogenic p-nitroanilide (pNA) substrate with the K <sub>m</sub> of 1.7 mM. Suc-AAPF-pNA can be used for the Measurement of free and membrane-bound cathepsin G in human neutrophils <sup>[1]</sup> .
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## REFERENCES

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[1]. Sylvie Attucci, et al. Measurement of free and membrane-bound cathepsin G in human neutrophils using new sensitive fluorogenic substrates. *Biochem J.* 2002 Sep 15;366(Pt 3):965-70.

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

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