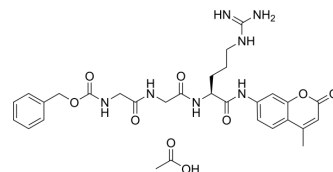


Z-Gly-Gly-Arg-AMC acetate

Cat. No.:	HY-P0019A
CAS No.:	2070009-61-7
Molecular Formula:	C ₃₀ H ₃₇ N ₇ O ₉
Molecular Weight:	639.66
Sequence:	Z-Gly-Gly-Arg-AMC
Sequence Shortening:	ZGGR-AMC
Target:	Fluorescent Dye
Pathway:	Others
Storage:	Sealed storage, away from moisture and light
	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)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (156.33 mM; ultrasonic and warming and heat to 60°C)				
	H ₂ O : 20 mg/mL (31.27 mM; Need ultrasonic)				
	Preparing Stock Solutions	<div>Solvent Concentration</div> <div>Mass</div>	1 mg	5 mg	10 mg
		1 mM	1.5633 mL	7.8167 mL	15.6333 mL
		5 mM	0.3127 mL	1.5633 mL	3.1267 mL
10 mM		0.1563 mL	0.7817 mL	1.5633 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: ≥ 4.17 mg/mL (6.52 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 4.17 mg/mL (6.52 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 4.17 mg/mL (6.52 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Z-Gly-Gly-Arg-AMC acetate is a thrombin-specific fluorogenic substrate for testing of thrombin generation in PRP and platelet-poor plasma (PPP).
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CUSTOMER VALIDATION

- J Mater Chem B. 2017 Oct 14;5(38):7876-7884.
- Int J Biol Macromol. 2019 Sep 15;137:261-269.
- Int J Biol Macromol. 2019 Aug 1;134:622-630.
- Bioorg Chem. 2019 Nov;92:103199.
- Chem Biol Interact. 2023 Apr 18;110501.

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- [1]. Tarandovskiy ID, et al. Antiplatelet agents can promote two-peaked thrombin generation in platelet rich plasma: mechanism and possible applications. PLoS One. 2013;8(2):e55688.
- [2]. Machlus KR, et al. Effects of tissue factor, thrombomodulin and elevated clotting factor levels on thrombin generation in the calibrated automated thrombogram. Thromb Haemost. 2009 Nov;102(5):936-44.
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Caution: Product has not been fully validated for medical applications. For research use only.

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