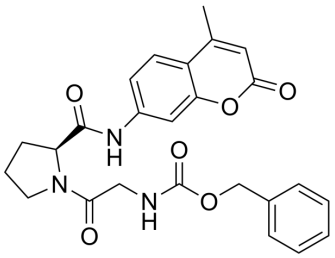
Z-Gly-Pro-AMC

Cat. No.:	HY-D1670
CAS No.:	68542-93-8
Molecular Formula:	$C_{25}H_{25}N_3O_6$
Molecular Weight:	463.48
Target:	Fluorescent Dye
Pathway:	Others
Storage:	-20°C, protect from light, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 125 mg/mL (269.70 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	2.1576 mL	10.7880 mL	21.5759 mL
	5 mM	0.4315 mL	2.1576 mL	4.3152 mL
	10 mM	0.2158 mL	1.0788 mL	2.1576 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: ≥ 2.08 mg/mL (4.49 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.08 mg/mL (4.49 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (4.49 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Z-Gly-Pro-AMC is a fluorogenic substrate. Z-Gly-Pro-AMC is hydrolyzed by prolyl endopeptidase to generate highly fluorescent 7-amido-4-methylcoumarin (HY-D0027). (λ_{ex}=380 nm, λ_{em}=465 nm)[1].

In Vitro

Guidelines (Following is our recommended protocol. This protocol only provides a guideline, and should be modified according to your specific needs).
Z-Gly-Pro-AMC assay[1]:
1. Make a 5 μL of plasma sample is pre-incubated with 10 μL of 250 nM FAP inhibitor, 10 μL of 250 nM PREP inhibitor or 10 μL of 0.0025% (v/v) DMSO for 15 min at 37 ⊠.

	2. Add 35 µL pre-heated Z-Gly-Pro-AMC (380 µM diluted in buffer) to obtain a final concentration of 266 µM. 3. Fluorescence is measured kinetically for 30 min at 37 ⊠. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Bracke A, et, al. The development and validation of a combined kinetic fluorometric activity assay for fibroblast activation protein alpha and prolyl oligopeptidase in plasma. Clin Chim Acta. 2019 Aug;495:154-160.

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