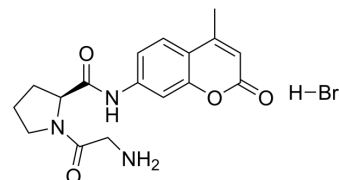


## Gly-Pro-AMC hydrobromide

<b>Cat. No.:</b>	HY-137834		
<b>CAS No.:</b>	115035-46-6		
<b>Molecular Formula:</b>	C <sub>17</sub> H <sub>20</sub> BrN <sub>3</sub> O <sub>4</sub>		
<b>Molecular Weight:</b>	410.26		
<b>Target:</b>	Fluorescent Dye		
<b>Pathway:</b>	Others		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 100 mg/mL (243.75 mM; Need ultrasonic)  
 H<sub>2</sub>O : 100 mg/mL (243.75 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	2.4375 mL	12.1874 mL	24.3748 mL
	5 mM	0.4875 mL	2.4375 mL	4.8750 mL
	10 mM	0.2437 mL	1.2187 mL	2.4375 mL

Please refer to the solubility information to select the appropriate solvent.

#### In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
 Solubility: ≥ 2.5 mg/mL (6.09 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
 Solubility: ≥ 2.5 mg/mL (6.09 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
 Solubility: ≥ 2.5 mg/mL (6.09 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Gly-Pro-AMC hydrobromide is a fluorescent dye, it can be used as a specific fluorescent substrate for detecting Dipeptidyl peptidase IV (DPP-IV) activity<sup>[1][2]</sup>.

#### In Vitro

Gly-Pro-AMC hydrobromide (50 μM; 20 min; 37 °C) can be used as a specific fluorescent substrate for detecting DPP-IV activity<sup>[1]</sup>.  
 Gly-Pro-AMC hydrobromide have fluorescence properties, with the fluorescence detection conditions: excitation wavelength

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350 nm, fluorescence emission spectrum detection 450 nm<sup>[1]</sup>.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

## REFERENCES

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[1]. Lammi C, et al. Soybean- and Lupin-Derived Peptides Inhibit DPP-IV Activity on In Situ Human Intestinal Caco-2 Cells and Ex Vivo Human Serum. *Nutrients*. 2018 Aug 13;10(8):1082.

[2]. Gallego M, et al. Dipeptidyl peptidase IV inhibitory peptides generated in Spanish dry-cured ham. *Meat Sci*. 2014 Feb;96(2 Pt A):757-61.

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

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