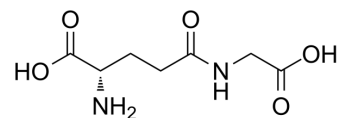


## γ-Glu-Gly

Cat. No.:	HY-P3280
CAS No.:	1948-29-4
Molecular Formula:	C <sub>7</sub> H <sub>12</sub> N <sub>2</sub> O <sub>5</sub>
Molecular Weight:	204.18
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	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

In Vitro	H <sub>2</sub> O : 5 mg/mL (24.49 mM; Need ultrasonic)				
	Preparing Stock Solutions	<div><div>Solvent</div><div>Concentration</div><div>Mass</div></div>	1 mg	5 mg	10 mg
			4.8976 mL	24.4882 mL	48.9764 mL
			0.9795 mL	4.8976 mL	9.7953 mL
			0.4898 mL	2.4488 mL	4.8976 mL
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: PBS Solubility: 50 mg/mL (244.88 mM); Clear solution; Need ultrasonic				

## BIOLOGICAL ACTIVITY

Description	γ-Glu-Gly, a γ-glutamyl dipeptide, is a human lipid metabolite. γ-Glu-Gly has a similar structure to GABA (γ-aminobutyric acid) and can act as an antagonist of excitatory amino acids <sup>[1][2][3]</sup> .
IC <sub>50</sub> & Target	Human Endogenous Metabolite
In Vitro	γ-Glu-Gly is a key component that influence the flavor of mature cheese. In <i>S. cerevisiae</i> , γ-Glutamyltransferase (GGT) produces two γ-glutamyl peptides, γ-Glu-Glu and γ-Glu-Gly <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

## REFERENCES

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- [1]. Kit-Yi Leung, et al. Regulation of glycine metabolism by the glycine cleavage system and conjugation pathway in mouse models of non-ketotic hyperglycinemia. *J Inherit Metab Dis.* 2020 Nov;43(6):1186-1198.
- [2]. Sonu Yadav, et al. Metabolomics shows the Australian dingo has a unique plasma profile. *Sci Rep.* 2021 Mar 4;11(1):5245.
- [3]. Olga A Sofyanovich, et al. Multiple pathways for the formation of the  $\gamma$ -glutamyl peptides  $\gamma$ -glutamyl-valine and  $\gamma$ -glutamyl-valyl-glycine in *Saccharomyces cerevisiae*. *PLoS One.* 2019 May 9;14(5):e0216622.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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