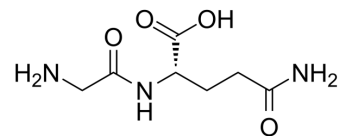


Glycyl-glutamine

Cat. No.:	HY-117541
CAS No.:	13115-71-4
Molecular Formula:	C ₇ H ₁₃ N ₃ O ₄
Molecular Weight:	203.2
Target:	Others
Pathway:	Others
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 2 years -20°C 1 year



SOLVENT & SOLUBILITY

In Vitro	H ₂ O : 62.5 mg/mL (307.58 mM; Need ultrasonic)					
	Preparing Stock Solutions	<div><div>Solvent</div><div>Concentration</div></div>	Mass	1 mg	5 mg	10 mg
		1 mM	4.9213 mL	24.6063 mL	49.2126 mL	
		5 mM	0.9843 mL	4.9213 mL	9.8425 mL	
	10 mM	0.4921 mL	2.4606 mL	4.9213 mL		
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: PBS					
	Solubility: 100 mg/mL (492.13 mM); Clear solution; Need ultrasonic					

BIOLOGICAL ACTIVITY

Description	Glycyl-glutamine (Glycyl-L-glutamine), as a enzymatic cleavage product of β-endorphin, is apparently an endogenous antagonist of beta-endorphin(1-31) in several systems ^[1] . Glycyl-glutamine (Glycyl-L-glutamine) is an activate and stable glutamine-containing neuropeptide over glutamine (Gln) ^[2] .
In Vitro	Glycyl-glutamine (Glycyl-L-glutamine) is an activate and stable glutamine-containing neuropeptide. Glycyl-glutamine (Glycyl-L-glutamine) has an advantage over free glutamine (Gln) as growth factors for cell culture during both autoclaving and storage ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Glycyl-glutamine (Glycyl-L-glutamine) (0.3, 0.6, 1.0 and 10.0 nM) can dose-dependently inhibit beta-End-(1-31)-induced hypotension in pentobarbital-anesthetized rats ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Unal CB1, et al. Beta-endorphin-induced cardiorespiratory depression is inhibited by glycyl-L-glutamine, a dipeptide derived from beta-endorphin processing. J Pharmacol Exp Ther. 1994 Nov;271(2):952-8

[2]. Roth E, et al. Influence of two glutamine-containing dipeptides on growth of mammalian cells. In Vitro Cell Dev Biol. 1988 Jul;24(7):696-8.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA