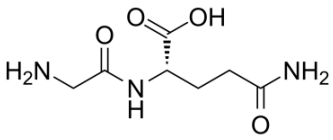
Glycyl-glutamine

Cat. No.:	HY-117541
CAS No.:	13115-71-4
Molecular Formula:	$C_7H_{13}N_3O_4$
Molecular Weight:	203.2
Target:	Others
Pathway:	Others

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

H_2O : 62.5 mg/mL (307.58 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	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.

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.

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