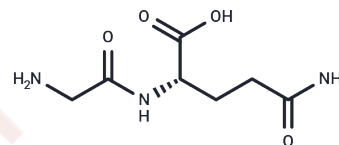


Glycyl-glutamine

Chemical Properties

CAS No. :	13115-71-4
Formula:	C7H13N3O4
Molecular Weight:	203.2
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Glycyl-glutamine (Glycyl-L-glutamine monohydrate) is an inhibitory neuropeptide derived from beta-endorphin.
Targets(IC50)	Others
In vivo	Glycyl-L-glutamine monohydrate(gly-L-gln) was administered to urethane-anesthetized rats and when it was injected before beta-End-(1-31).?Gly-L-gln also attenuated the respiratory depressant effect of beta-End-(1-31), significantly inhibiting beta-End-(1-31)-induced hypoxia and hypercapnia[1].

Solubility Information

Solubility	H2O: 62.5 mg/mL (307.58 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
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
50 mM	0.0984 mL	0.4921 mL	0.9843 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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

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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