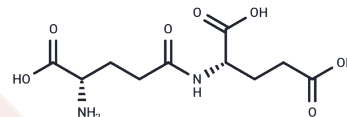


L-γ-Glutamyl-L-glutamic acid

Chemical Properties

CAS No. :	1116-22-9
Formula:	C10H16N2O7
Molecular Weight:	276.24
Storage:	Keep away from direct sunlight Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	L-γ-Glutamyl-L-glutamic acid is an endogenous γ-glutamyl dipeptide, which is composed of two L- glutamic acid residues linked by γ-glutamyl bond and participates in the γ-glutamyl cycle. It is often used to study amino acid metabolism and related biochemical mechanisms.
Targets(IC50)	Amino Acids and Derivatives

Solubility Information

Solubility	DMSO: 20 mg/mL (72.4 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	--

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.620 mL	18.1002 mL	36.2004 mL
5 mM	0.724 mL	3.620 mL	7.2401 mL
10 mM	0.362 mL	1.810 mL	3.620 mL
50 mM	0.0724 mL	0.362 mL	0.724 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

Wang F, et al. Microstructure of poly(γ -glutamic acid) produced by *Bacillus subtilis* consisting of clusters of D- and L-glutamic acid repeating units. *J Agric Food Chem*. 2008 Jun 11;56(11):4225-8.

Orwar O, Li X, Andiné P, Bergström CM, Hagberg H, Folestad S, Sandberg M. Increased intra- and extracellular concentrations of γ -glutamylglutamate and related dipeptides in the ischemic rat striatum: involvement of glutamyl transpeptidase. *J Neurochem*. 1994 Oct;63(4):1371-6. PubMed PMID: 7931288.

Varga V, Janáky R, Holopainen I, Oja SS, Akerman KE. Endogenous γ -L-glutamylglutamate is a partial agonist at the N-methyl-D-aspartate receptors in cultured cerebellar granule cells. *Neurochem Res*. 1995 Dec;20(12):1471-6. PubMed PMID: 8789610.

Li X, Orwar O, Revesjö C, Sandberg M. γ -glutamyl peptides and related amino acids in rat hippocampus in vitro: effect of depolarization and γ -glutamyl transpeptidase inhibition. *Neurochem Int*. 1996 Aug;29(2):121-8. PubMed PMID: 8837040.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481