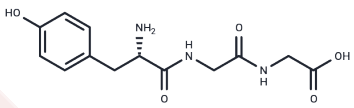
Data Sheet (Cat.No.T19890)

TargetMol

Tyrosyl-glycyl-glycine

Chemical Properties



CAS No. : 21778-69-8

Formula: C13H17N3O5

Molecular Weight: 295.29

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	Tyrosyl-glycyl-glycine, a tripeptide released by enkephalinase, is a metabolite consisting of one L-tyrosine and two glycine residues sequentially linked together.
Targets(IC50)	Others,Amino Acids and Derivatives

Solubility Information

Solubility	DMSO: Soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.3865 mL	16.9325 mL	33.865 mL
5 mM	0.6773 mL	3.3865 mL	6.773 mL
10 mM	0.3387 mL	1.6933 mL	3.3865 mL
50 mM	0.0677 mL	0.3387 mL	0.6773 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

Furukawa S, Fukuyama T, Matsui A, Kuratsu M, Nakaya R, Ineyama T, Ueda H, Ryu I. Coupling-Reagent-Free Synthesis of Dipeptides and Tripeptides Using Amino Acid Ionic Liquids. Chemistry. 2015 Aug 17;21(34):11980-3. doi: 10.1002/chem.201501783. Epub 2015 Jul 17. PubMed PMID: 26213326.

Lai CK, Mu X, Hao Q, Hopkinson AC, Chu IK. Formation, isomerization, and dissociation of ε- and α-carbon-centered tyrosylglycylglycine radical cations. Phys Chem Chem Phys. 2014 Nov 28;16(44):24235-43. doi: 10.1039/c4cp03119a. PubMed PMID: 25293584.

Abo-Riziq A, Grace L, Crews B, Callahan MP, van Mourik T, de Vries MS. Conformational structure of tyrosine, tyrosyl-glycine, and tyrosyl-glycyl-glycine by double resonance spectroscopy. J Phys Chem A. 2011 Jun 16;115(23):6077-87. doi: 10.1021/jp110601w. Epub 2011 Mar 17. PubMed PMID: 21413771.

Afonine PV, Grosse-Kunstleve RW, Adams PD, Lunin VY, Urzhumtsev A. On macromolecular refinement at subatomic resolution with interatomic scatterers. Acta Crystallogr D Biol Crystallogr. 2007 Nov;63(Pt 11):1194-7. Epub 2007 Oct 17. PubMed PMID: 18007035; PubMed Central PMCID: PMC2808317.

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