

Diglycyl-histidine

Chemical Properties

CAS No. : 7451-76-5

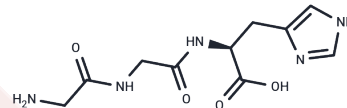
Formula: C10H15N5O4

Molecular Weight: 269.26

Keep away from moisture

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 | Diglycyl-histidine is a tripeptide complexed with cupric ion designed to mimic specific Cu (II) transport site of ascorbate on albumin molecule. |
| Targets(IC50) | Amino Acids and Derivatives |

Solubility Information

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

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 3.7139 mL | 18.5694 mL | 37.1388 mL |
| 5 mM | 0.7428 mL | 3.7139 mL | 7.4278 mL |
| 10 mM | 0.3714 mL | 1.8569 mL | 3.7139 mL |
| 50 mM | 0.0743 mL | 0.3714 mL | 0.7428 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

- Hu X, Zhang Q, Wang W, Yuan Z, Zhu X, Chen B, Chen X. Tripeptide GGH as the Inhibitor of Copper-Amyloid- β -Mediated Redox Reaction and Toxicity. *ACS Chem Neurosci*. 2016 Sep 21;7(9):1255-63. doi: 10.1021/acschemneuro.6b00145. Epub 2016 Aug 3. PubMed PMID: 27433833.
- Gerlich M, Neumann S. MetFusion: integration of compound identification strategies. *J Mass Spectrom*. 2013 Mar;48(3):291-8. doi: 10.1002/jms.3123. PubMed PMID: 23494783.
- Joyner JC, Hodnick WF, Cowan AS, Tamuly D, Boyd R, Cowan JA. Antimicrobial metallopeptides with broad nuclease and ribonuclease activity. *Chem Commun (Camb)*. 2013 Mar 14;49(21):2118-20. doi: 10.1039/c3cc38977d. Epub 2013 Feb 5. PubMed PMID: 23380915; PubMed Central PMCID: PMC3632407.
- Gruchlik A, Jurzak M, Chodurek E, Dzierzewicz Z. Effect of Gly-Gly-His, Gly-His-Lys and their copper complexes on TNF-alpha-dependent IL-6 secretion in normal human dermal fibroblasts. *Acta Pol Pharm*. 2012 Nov-Dec;69(6):1303-6. PubMed PMID: 23285694.

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