

Biotinoyl tripeptide-1

Chemical Properties

CAS No. : 299157-54-3

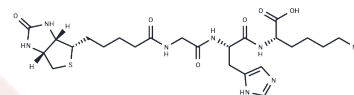
Formula: C₂₄H₃₈N₈O₆S

Molecular Weight: 566.67

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	Biotinoyl tripeptide-1 can produce hair follicles by promoting scalp micro-circulation and reduce follicle atrophy and aging.
Targets(IC50)	Beta Amyloid,ROS

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7647 mL	8.8235 mL	17.647 mL
5 mM	0.3529 mL	1.7647 mL	3.5294 mL
10 mM	0.1765 mL	0.8823 mL	1.7647 mL
50 mM	0.0353 mL	0.1765 mL	0.3529 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

Lee CK, Cheong C, Jeon YH. Substrate recognition characteristics of human holocarboxylase synthetase for biotin ligation. *Biochem Biophys Res Commun*. 2010 Jan 1;391(1):455-60. doi: 10.1016/j.bbrc.2009.11.079. Epub 2009 Nov 13. PubMed PMID: 19914215.

Solbiati J, Chapman-Smith A, Cronan JE Jr. Stabilization of the biotinoyl domain of *Escherichia coli* acetyl-CoA carboxylase by interactions between the attached biotin and the protruding "thumb" structure. *J Biol Chem*. 2002 Jun 14;277(24):21604-9. Epub 2002 Apr 9. PubMed PMID: 11943781.

Chakravartty V, Cronan JE. The wing of a winged helix-turn-helix transcription factor organizes the active site of BirA, a bifunctional repressor/ligase. *J Biol Chem*. 2013 Dec 13;288(50):36029-39. doi: 10.1074/jbc.M113.525618. Epub 2013 Nov 4. PubMed PMID: 24189073; PubMed Central PMCID: PMC3861651.

Henke SK, Cronan JE. The *Staphylococcus aureus* group II biotin protein ligase BirA is an effective regulator of biotin operon transcription and requires the DNA binding domain for full enzymatic activity. *Mol Microbiol*. 2016 Nov;102(3):417-429. doi: 10.1111/mmi.13470. Epub 2016 Aug 24. PubMed PMID: 27445042; PubMed Central PMCID: PMC5116234.

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