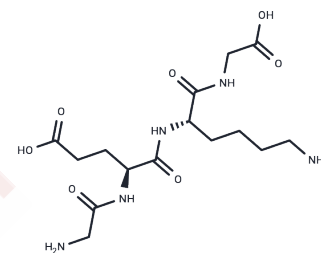


Tetrapeptide-21

Chemical Properties

CAS No. :	960608-17-7
Formula:	C ₁₅ H ₂₇ N ₅ O ₇
Molecular Weight:	389.4
Storage:	Keep away from moisture, 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	Tetrapeptide-21 (GEKG peptide) is a bioactive peptide composed of four amino acids that effectively enhances the activity of human dermal fibroblasts. It upregulates the expression of key extracellular matrix (ECM)-related genes and promotes the synthesis of ECM proteins, including type I collagen, hyaluronan synthase 1, and fibronectin. Due to its anti-wrinkle and skin elasticity-improving effects, Tetrapeptide-21 has been reported as an ingredient in cosmetic products.
Targets(IC50)	Others

Solubility Information

Solubility	H ₂ O: 160 mg/mL (410.89 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5681 mL	12.8403 mL	25.6805 mL
5 mM	0.5136 mL	2.5681 mL	5.1361 mL
10 mM	0.2568 mL	1.284 mL	2.5681 mL
50 mM	0.0514 mL	0.2568 mL	0.5136 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

Paccola AGL, et al. Synergistic Effects of Injectable Platelet-Rich Fibrin and Bioactive Peptides on Dermal Fibroblast Viability and Extracellular Matrix Gene Expression: An In Vitro Study. *Molecules*. 2025;30(16):3415. Published 2025 Aug 19.

Beldio Research GmbH, et al. Topical Peptide Treatments with Effective Anti-Aging Results. *Cosmetics* 2017, 4(2), 16.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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