

Matrixyl Acetate(214047-00-4 free base)

Chemical Properties

CAS No. :

Formula: C41H79N7O12

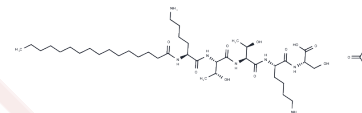
Molecular Weight: 862.12

Storage:

Keep away from direct sunlight,Keep away from moisture,Store at low temperature

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	Matrixyl Acetate(214047-00-4 free base) (Palmitoyl pentapeptide) is a matrikine used in anti-wrinkle cosmetics.
Targets(IC50)	Others

Solubility Information

Solubility	H2O: 90.9 mg/mL (105.44 mM),Sonication and heating are recommended. DMSO: 9.1 mg/mL (10.56 mM),Sonication and heating are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.1599 mL	5.7997 mL	11.5993 mL
5 mM	0.232 mL	1.1599 mL	2.3199 mL
10 mM	0.116 mL	0.580 mL	1.1599 mL
50 mM	0.0232 mL	0.116 mL	0.232 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

Giangreco F, Höfingner S, Bakalis E, Zerbetto F. Impact of the green tea ingredient epigallocatechin gallate and a short pentapeptide (Ile-Ile-Ala-Glu-Lys) on the structural organization of mixed micelles and the related uptake of cholesterol. *Biochim Biophys Acta Gen Subj*. 2018 Sep;1862(9):1956-1963. doi: 10.1016/j.bbagen.2018.06.005. Epub 2018 Jun 15. PubMed PMID: 29886279.

Park H, An E, Cho Lee AR. Effect of Palmitoyl-Pentapeptide (Pal-KTTKS) on Wound Contractile Process in Relation with Connective Tissue Growth Factor and α -Smooth Muscle Actin Expression. *Tissue Eng Regen Med*. 2017 Jan 19; 14(1):73-80. doi: 10.1007/s13770-016-0017-y. eCollection 2017 Feb. PubMed PMID: 30603464; PubMed Central PMCID: PMC6171572.

Choi YL, Park EJ, Kim E, Na DH, Shin YH. Dermal Stability and In Vitro Skin Permeation of Collagen Pentapeptides (KTTKS and palmitoyl-KTTKS). *Biomol Ther (Seoul)*. 2014 Jul;22(4):321-7. doi: 10.4062/biomolther.2014.053. PubMed PMID: 25143811; PubMed Central PMCID: PMC4131521.

Rubinichik E, Schneider T, Elliott M, Scott WR, Pan J, Anklin C, Yang H, Dugourd D, Müller A, Gries K, Straus SK, Sahl HG, Hancock RE. Mechanism of action and limited cross-resistance of new lipopeptide MX-2401. *Antimicrob Agents Chemother*. 2011 Jun;55(6):2743-54. doi: 10.1128/AAC.00170-11. Epub 2011 Apr 4. PubMed PMID: 21464247; PubMed Central PMCID: PMC3101398.

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