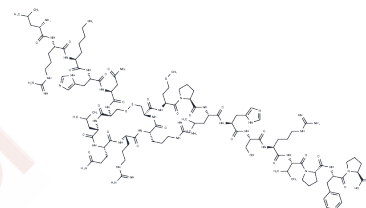


ELA-21 (human)

Chemical Properties

CAS No. : 2245073-05-4
 Formula: C112H184N40O25S3
 Molecular Weight: 2587.12
 Storage: Keep away from moisture
 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	High affinity apelin receptor agonist. Binds apelin receptors in left ventricle from normal and pulmonary arterial hypertensive (PAH) hearts (pKi values are 9.31 and 9.46, respectively). Bioactive fragment of ELA-32. Inhibits forskolin-induced cAMP production and stimulates β -arrestin recruitment in vitro.
Targets(IC50)	Apelin receptor, Arrestin

Solubility Information

Solubility	H2O: 2 mg/mL (0.77 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.3865 mL	1.9327 mL	3.8653 mL
5 mM	0.0773 mL	0.3865 mL	0.7731 mL
10 mM	0.0387 mL	0.1933 mL	0.3865 mL
50 mM	0.0077 mL	0.0387 mL	0.0773 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

Yang et al (2017) Elabela/Toddler is an endogenous agonist of the apelin APJ receptor in the adult cardiovascular system, and exogenous administration of the peptide compensates for the downregulation of its expression in pulmonary arterial hypertension. Circulation 135 1160 PMID:

Deng et al (2015) Apela regulates fluid homeostasis by binding to the APJ receptor to activate Gi signaling. J.Biol. Chem. 290 18261 PMID:

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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