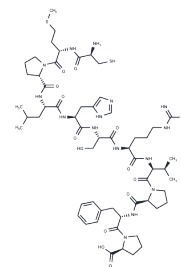


ELA-11(human)

Chemical Properties

CAS No. : 1784687-32-6
 Formula: C58H90N16O13S2
 Molecular Weight: 1283.57
 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 (Ki = 14 nM). 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 (1.56 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	0.7791 mL	3.8954 mL	7.7908 mL
5 mM	0.1558 mL	0.7791 mL	1.5582 mL
10 mM	0.0779 mL	0.3895 mL	0.7791 mL
50 mM	0.0156 mL	0.0779 mL	0.1558 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:

Murza et al (2016) Discovery and structure-activity relationship of a bioactive fragment of ELABELA that modulates vascular and cardiac functions. J.Med.Chem. 59 2962 PMID:

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