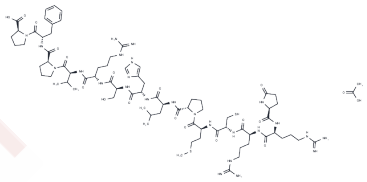
Data Sheet (Cat.No.TP1923L1)

TargetMol

ELA-14(human) acetate

Chemical Properties



CAS No. :

Formula: C77H123N25O19S2

Molecular Weight: 1767.09

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	ELA-14(human) acetate is a fragment of ELA that binds to APJ, activates the Gαi1 and β-arrestin-2 signaling pathways, and induces receptor internalization similarly to its parent endogenous peptide.
Targets(IC50)	Apelin receptor,Arrestin
In vitro	ELA-14 activates the Gαi1 and β-arrestin-2 signaling pathways with EC50s of 8.6 nM and 166 nM. ELA-14 induces receptor internalization and reduces arterial pressure, exerts positive inotropic effects on the heart[1].
In vivo	ELA-14 is rapidly metabolized in rat plasma (t1/2<2 min)[1].

Solubility Information

Solubility	H2O: 100 mg/mL (56.59 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.5659 mL	2.8295 mL	5.659 mL
5 mM	0.1132 mL	0.5659 mL	1.1318 mL
10 mM	0.0566 mL	0.283 mL	0.5659 mL
50 mM	0.0113 mL	0.0566 mL	0.1132 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

Alexandre Murza, et al. Discovery and Structure-Activity Relationship of a Bioactive Fragment of ELABELA That Modulates Vascular and Cardiac Functions. J Med Chem. 2016 Apr 14;59(7):2962-72.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481