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## Product Data Sheet

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Product Name: ELA-21 (human)

Cat. No.: GC50549

### Chemical Properties

Cas. No. 2245073-05-4

Formula  $C_{112}H_{184}N_{40}O_{25}S_3$

M.Wt 2587.12

Solubility Soluble in DMSO

Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

### Background

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  $\beta$ -arrestin recruitment in vitro.

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:28137936 |Deng et al (2015) Apela regulates fluid homeostasis by binding to the APJ receptor to activate Gi signaling. J.Biol.Chem. 290 18261 PMID:25995451

**Caution: Product has not been fully validated for medical applications. For research use only.**

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