

ELA-21 (human)

Cat. No.:	HY-P2249
CAS No.:	2245073-05-4
Molecular Formula:	C ₁₁₂ H ₁₈₄ N ₄₀ O ₂₅ S ₃
Molecular Weight:	2587.11
Sequence:	Leu-Arg-Lys-His-Asn-Cys-Leu-Gln-Arg-Arg-Cys-Met-Pro-Leu-His-Ser-Arg-Val-Pro-Phe-Pro (Disulfide bridge: Cys6-Cys11)
Sequence Shortening:	LRKHNCLQRRCMPLHSRVPFP (Disulfide bridge: Cys6-Cys11)
Target:	Arrestin; Apelin Receptor (APJ)
Pathway:	GPCR/G Protein
Storage:	Sealed storage, away from moisture and light, under nitrogen Powder -80°C 2 years -20°C 1 year * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light, under nitrogen)

BIOLOGICAL ACTIVITY

Description

ELA-21 (human) is an apelin receptor agonist with a pK_i of 8.52. ELA-21 (human) completely inhibits Forskolin-induced cAMP production and stimulates β-arrestin recruitment with subnanomolar potencies. ELA-21 (human) is an agonist in G-protein-dependent and -independent pathways^[1].

REFERENCES

[1]. Peiran Yang, et al. 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*. 2017 Mar 21;135(12):1160-1173.

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

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