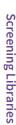
Inhibitors



Proteins

Product Data Sheet

ELA-32(human) TFA

Cat. No.: HY-P2196A

Molecular Formula: $C_{172}H_{290}F_3N_{63}O_{41}S_4$

Molecular Weight: 4081.84

QRPVNLTMRRKLRKHNCLQRRCMPLHSRVPFP (Disulfide bridge: Cys17-Cys22) Sequence Shortening:

QRPVNLTMRRKLRKHNCLQRRCMPLHSRVPFF (Disulfide bridge: Cys₁₇-Cys₂₂) (TFA salt)

Target: Apelin Receptor (APJ)

Pathway: GPCR/G Protein

Storage: Sealed storage, away from moisture and light, under nitrogen

> -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)

SOLVENT & SOLUBILITY

In Vitro

H₂O: 100 mg/mL (24.50 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	0.2450 mL	1.2249 mL	2.4499 mL
	5 mM	0.0490 mL	0.2450 mL	0.4900 mL
	10 mM	0.0245 mL	0.1225 mL	0.2450 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: PBS

Solubility: 100 mg/mL (24.50 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

 $ELA-32 (human) \ TFA \ is \ a \ potent, \ high \ affinity \ apelin \ receptor \ agonist \ (IC_{50}=0.27 \ nM; \ K_d=0.51 \ nM). \ ELA-32 (human) \ TFA \ exhibits$ no binding GPR15 and GPR25. ELA-32(human) TFA activates the PI3K/AKT pathway and promotes self-renewal of hESCs via cell-cycle progression and protein translation. ELA-32(human) TFA also potentiates the TGFβ pathway, priming hESCs toward the endoderm lineage. ELA-32(human) TFA stimulates angiogenesis in HUVEC cells.

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

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Page 1 of 1