

Apelin-36(human)

Cat. No.:	HY-P1064
CAS No.:	252642-12-9
Molecular Formula:	C ₁₈₄ H ₂₉₇ N ₆₉ O ₄₃ S
Molecular Weight:	4195.83
Sequence:	Leu-Val-Gln-Pro-Arg-Gly-Ser-Arg-Asn-Gly-Pro-Gly-Pro-Trp-Gln-Gly-Gly-Arg-Arg-Lys-Ph e-Arg-Arg-Gln-Arg-Pro-Arg-Leu-Ser-His-Lys-Gly-Pro-Met-Pro-Phe
Sequence Shortening:	LVQPRGSRNGPGPWQGGRRKFRQRPRLSHKGPMPF
Target:	HIV
Pathway:	Anti-infection
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	Apelin-36(human) is an endogenous orphan G protein-coupled receptor APJ agonist, with an EC ₅₀ of 20 nM. Apelin-36(human) shows high affinity to human APJ receptors expressed in HEK 293 cells (pIC ₅₀ =8.61). Apelin-36 has been linked to two major types of biological activities: cardiovascular and metabolic. Apelin-36(human) inhibits the entry of some HIV-1 and HIV-2 into the NP2/CD4 cells expressing APJ ^{[1][2][3][4]} .	
IC₅₀ & Target	HIV-1	HIV-2

REFERENCES

- [1]. Tatemoto K, Hosoya M, Habata Y, et al. Isolation and characterization of a novel endogenous peptide ligand for the human APJ receptor. *Biochem Biophys Res Commun.* 1998;251(2):471-476.
- [2]. Medhurst AD, Jennings CA, Robbins MJ, et al. Pharmacological and immunohistochemical characterization of the APJ receptor and its endogenous ligand apelin. *J Neurochem.* 2003;84(5):1162-1172.
- [3]. Zou MX, Liu HY, Haraguchi Y, Soda Y, Tatemoto K, Hoshino H. Apelin peptides block the entry of human immunodeficiency virus (HIV). *FEBS Lett.* 2000;473(1):15-18.
- [4]. Galon-Tilleman H, Yang H, Bednarek MA, et al. Apelin-36 Modulates Blood Glucose and Body Weight Independently of Canonical APJ Receptor Signaling. *J Biol Chem.* 2017;292(5):1925-1933.

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

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