

## Apelin-36(human)

## Chemical Properties

CAS No. :	252642-12-9
Formula:	C184H297N69O43S
Molecular Weight:	4195.87
Storage:	Keep away from moisture Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>

LVQPRGSRNGPGPWQGGRRKFRQRPRLSHGKGMPPF

## Biological Description

Description	Endogenous APJ receptor agonist (EC50 = 20 nM) that is secreted by adipocytes. Binds with high affinity to human APJ receptors expressed in HEK 293 cells (pIC50= 8.61). Involved in regulation of cardiovascular function, fluid homeostasis and feeding. Blocks entry of some HIV-1 and HIV-2 strains into NP-2/CD4 cells expressing APJ.
Targets(IC50)	Apelin receptor,HIV Protease

## Solubility Information

Solubility	H2O: 1 mg/mL (0.24 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.2383 mL	1.1916 mL	2.3833 mL
5 mM	0.0477 mL	0.2383 mL	0.4767 mL
10 mM	0.0238 mL	0.1192 mL	0.2383 mL
50 mM	0.0048 mL	0.0238 mL	0.0477 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

- Zou et al (2000) Apelin peptides block the entry of human immunodeficiency virus (HIV). FEBS Lett. 473 15 PMID:  
Medhurst et al (2003) Pharmacological and immunohistochemical characterization of the APJ receptor and its endogenous ligand apelin. J.Neurochem. 84 1162 PMID:

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