

## Apelin-36(rat, mouse)

## Chemical Properties

CAS No. :	230299-95-3
Formula:	C185H304N68O43S
Molecular Weight:	4200.93
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>

LVKPRTSRTG PGAWOGGRRK FRRQRPRLSH KGMMPF

## Biological Description

Description	Endogenous APJ receptor agonist that is secreted by adipocytes. Binds with high affinity to APJ receptors (IC50 = 5.4 nM) and potently inhibits cAMP production in vitro (EC50 = 0.52 nM). 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: 1.6 mg/mL (0.38 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	0.238 mL	1.1902 mL	2.3804 mL
5 mM	0.0476 mL	0.238 mL	0.4761 mL
10 mM	0.0238 mL	0.119 mL	0.238 mL
50 mM	0.0048 mL	0.0238 mL	0.0476 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:  
Kawamata et al (2001) Molecular properties of apelin: tissue distribution and receptor binding. Biochim.Biophys.  
Acta 1538 162 PMID:

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