

## Apelin-36 (rat, mouse)

## Chemical Properties

CAS No.:	230299-95-3
Formula:	C185H304N68O43S
Molecular Weight:	4200.93
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

## Biological Description

Description	Endogenous APJ receptor agonist that is secreted by adipocytes. Binds with high affinity to APJ receptors (IC <sub>50</sub> = 5.4 nM) and potently inhibits cAMP production in vitro (EC <sub>50</sub> = 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.
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## Solubility Information

Solubility	water: 1.60 mg/mL ( < 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	1.19 mL	2.38 mL
5 mM	0.048 mL	0.238 mL	0.476 mL
10 mM	0.024 mL	0.119 mL	0.238 mL
50 mM	0.005 mL	0.024 mL	0.048 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

## Reference

1. Zou et al (2000) Apelin peptides block the entry of human immunodeficiency virus (HIV). FEBS Lett. 473 15 PMID:
2. Kawamata et al (2001) Molecular properties of apelin: tissue distribution and receptor binding. Biochim.Biophys.Acta 1538 162 PMID:

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