

## Peptide YY (PYY) (3-36), human

## Chemical Properties

CAS No.:	126339-09-1
Formula:	C176H272N52O54
Molecular Weight:	3980.42
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

## Biological Description

Description	Peptide YY (PYY) (3-36), human is a gut hormone peptide that acts as a Y2 receptor agonist to reduce appetite.
Targets(IC <sub>50</sub> )	Y2 receptor: None
In vitro	Peptide YY (PYY) (3-36), human is a Y2 receptor agonist, generated via cleaving the first two amino acids at the N terminus of PYY1-36 by enzyme dipeptidyl peptidase-IV (DPP-IV), and can reduces food intake[1].
In vivo	In mice, actinonin significantly prolongs the anorectic effect of PYY3-36 (50 nmol/kg) and maintains higher PYY3-36 plasma levels than treatment with PYY3-36 alone[1].

## Solubility Information

Solubility	H2O: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.251 mL	1.256 mL	2.512 mL
5 mM	0.05 mL	0.251 mL	0.502 mL
10 mM	0.025 mL	0.126 mL	0.251 mL
50 mM	0.005 mL	0.025 mL	0.05 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. Addison ML, et al. A role for metalloendopeptidases in the breakdown of the gut hormone, PYY 3-36. Endocrinology. 2011 Dec;152(12):4630-40.

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