

Peptide YY (PYY), human

Chemical Properties

CAS No.:	118997-30-1
Formula:	C194H295N55O57
Molecular Weight:	4309.75
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), a novel 36 amino-acid amidated hormone is a component of the complex neuroendocrine control process. Peptide YY (PYY) can mediate its effects through the Neuropeptide Y receptors.
In vitro	The gut hormone peptide YY (PYY) belongs to the pancreatic polypeptide (PP) family along with PP and neuropeptide Y (NPY). These peptides mediate their effects through the NPY receptors of which there are several subtypes (Y1, Y2, Y4, and Y5)[1]. Pancreatic polypeptide YY (Peptide YY), a small peptide consisting of 36 amino acids, is originally isolated from porcine intestine and is secreted from the neuroendocrine cells (L cells) in the mucosa of the gastrointestinal tract, but it has been localized to other locations associated with the digestive system[2].
In vivo	Peptide YY is capable of strongly inhibiting secretin-stimulated pancreatic secretion. A very low dose of Peptide YY (10-20 pmol/kg) significantly decreases the pancreatic secretion of bicarbonate as well as fluid that is stimulated by a single dose of secretin (0.1 unit/kg). A dose of Peptide YY of 100-200 pmol/kg causes a 70-80% reduction of the pancreatic bicarbonate and fluid secretion[3]. Peptide YY is localised to blood vessels and atherosclerotic plaques of rabbits. It causes vasoconstriction of the vascular tree[2].

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.232 mL	1.16 mL	2.32 mL
5 mM	0.046 mL	0.232 mL	0.464 mL
10 mM	0.023 mL	0.116 mL	0.232 mL
50 mM	0.005 mL	0.023 mL	0.046 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. Peptide YY, et al. The gut hormone peptide YY regulates appetite. Ann N Y Acad Sci. 2003 Jun;994:162-8.

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