

Data Sheet (Cat.No.TP1137)

Pancreatic Polypeptide, human

Chemical Properties

CAS No.: 75976-10-2
 Formula: C185H287N53O54S2
 Molecular Weight: 4181.71
 Appearance: N/A
 Storage: 0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Endogenous high affinity agonist for human NPY Y4 receptor (K _i = 0.056 nM). Believed to play an important role in the function of the gastrointestinal tract.
In vitro	Human pancreatic polypeptide (hPP) is one such peptide, being released postprandially from F cells of the pancreatic islets depending on caloric load, food consumption and circadian rhythm. It is a C-terminally amidated 36 amino acid peptide with a characteristic hairpin-like pancreatic polypeptide (PP)-fold and acts at the Y4 receptor to induce satiety and delay gastric emptying and motility[1]. Addition of the human pancreatic polypeptide (hPP) (10 nM-1 μM) results in a significant, dose-dependent reduction in both basal and stimulated release. Human pancreatic polypeptide (hPP) can also inhibit basal and stimulated NPY release with a pharmacological profile suggesting a role for Y4 presynaptic receptors[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	0.239 mL	1.196 mL	2.391 mL
5 mM	0.048 mL	0.239 mL	0.478 mL
10 mM	0.024 mL	0.12 mL	0.239 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. Thieme V, et al. High molecular weight PEGylation of human pancreatic polypeptide at position 22 improves stability and reduces food intake in mice. Br J Pharmacol. 2016 Nov;173(22):3208-3221.

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