
Product Data Sheet

Product Name: Peptide YY(3-36), PYY, human

Cat. No.: GP10131

Chemical Properties

Cas. No. 123583-37-9

Formula $C_{180}H_{279}N_{53}O_{54}$

M.Wt 4049.6

Solubility $\geq 405\text{mg/mL}$ in DMSO

Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37°C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

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Background

Peptide YY (PYY) is a short (36-amino acid) peptide released by cells in the ileum and colon in response to feeding. It is also known as peptide tyrosine tyrosine or pancreatic peptide YY3-36. [1]

Studies have shown an important role of PYY (3-36) in the regulation of appetite control. It is the major circulating form of the peptide, is considered to reduce food intake in humans and rodents via high affinity binding to the auto-inhibitory neuropeptide Y receptor Y2R in the hypothalamic arcuate nucleus (ARC), a brain area responsible for the regulation of food intake. PYY (3-36) may represent a promising tool for the treatment of obesity.

PYY exerts its action through NPY receptors; it inhibits gastric motility and increases water and electrolyte absorption in the colon. [2] PYY may also suppress pancreatic secretion. Several studies have shown acute peripheral administration of PYY3-36 inhibits feeding of rodents and primates. Other studies on Y2R-knockout mice have shown no anorectic effect on them. These findings indicate PYY3-36 has an anorectic (losing appetite) effect, which is suggested to be mediated by Y2R. PYY works by slowing the gastric emptying; hence, it increases efficiency of digestion and nutrient absorption after a meal. Research has also indicated PYY may be useful in removing aluminum accumulated in the brain.

Caution: Product has not been fully validated for medical applications. For research use only.

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References:

1. Entrez Gene: PYY peptide YY
2. DeGroot, Leslie Jacob (1989). In J. E. McGuigan. Endocrinology. Philadelphia: Saunders. p. 2754.

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