

Peptide YY (pig)

Cat. No.:	HY-P2703
CAS No.:	81858-94-8
Molecular Formula:	C ₁₉₀ H ₂₈₈ N ₅₄ O ₅₇
Molecular Weight:	4240.72
Sequence Shortening:	YPAKPEAPGEDASPEELSRYYASLRHYLNLVTRQRY-NH2
Target:	Neuropeptide Y Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	Peptide YY (pig) is a 36 amino acid gastrointestinal peptide, can be isolated from porcine duodenum. Peptide YY (pig) decreases appetite and food-intake by activation of the Y2 receptor. Peptide YY (pig) is present mainly in pancreatic endocrine cells with effect on both intestinal motility and the cardiovascular system ^{[1][2][3]} .
IC₅₀ & Target	NPY ₂ receptor
In Vitro	Peptide YY (pig) (10 µg/mL) has antibody specificity (for PYY antiserum), as well as human pancreatic polypeptide (PP). Both of them may play endocrine or paracrine roles in the regulation of islet hormone secretion in various vertebrate species ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Peptide YY ₁₋₃₆ (pig) is degraded to PYY ₃₋₃₆ by dipeptidyl peptidase IV (DPP-IV), and PYY ₃₋₃₆ (50 nmol/kg; i.v.; single dose) is further broken down into many metabolism in Göttingen mini-pig and Rhesus monkey ^[3] . Peptide YY ₁₋₃₆ (pig) shows other physiological effects including slowing of intestinal transit, inhibition of gastrointestinal anion and electrolyte secretion and lowering of blood glucose ^[3] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Lundberg JM, et al. Localization of peptide YY (PYY) in gastrointestinal endocrine cells and effects on intestinal blood flow and motility. Proc Natl Acad Sci U S A. 1982 Jul;79(14):4471-5.
- [2]. Ding WG, et al. Neuropeptide Y and peptide YY immunoreactivities in the pancreas of various vertebrates. Peptides. 1997;18(10):1523-9.
- [3]. Olsen J, et al. Metabolism of peptide YY 3-36 in Göttingen mini-pig and rhesus monkey. Peptides. 2016 Apr;78:59-67.

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

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