



LKT Laboratories, Inc.

Peptide YY, pig

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Product Information

Product ID P1762

CAS No. 81858-94-8

Chemical Name

Synonym Peptide tyrosine tyrosine, PYY

Formula $C_{190}H_{288}N_{54}O_{57}$

Formula Wt. 4240.7

Melting Point

Purity $\geq 98\%$

Solubility Soluble in water, acid.

Store Temp $-20^{\circ}C$

Ship Temp Ambient

Description Peptide YY is an endogenous neuropeptide Y-related peptide that activates Y1 and Y2 receptors. Peptide YY is an appetite-regulating hormone secreted from the gastrointestinal tract that exhibits anorexigenic and gastrointestinal motility modulating activities. Peptide YY decreases osteoblast activity, contributing to bone loss in clinical settings in which patients have recently lost weight. Peptide YY also decreases levels of AMPK and phosphorylated acetyl CoA carboxylase in the liver, decreasing lipid oxidation and/or increasing lipogenesis. Peptide YY also induces slight improvements in insulin response during glucose challenge in animal models. In other in vivo models, peptide YY induces mucosal anti-secretory activity, inhibiting colonic and upper gastrointestinal transit.

Tyr-Pro-Ala-Lys-Pro-Glu-Ala-Pro-Gly-Glu-Asp-Ala-Ser-Pro-Glu-Glu-Leu-Ser-Arg-Tyr-Tyr-Ala-Ser-Leu-Arg-His-Tyr-Leu-Asn-Leu-Val-Thr-Arg-Gln-Arg-Tyr-NH₂

Bulk quantities available upon request

Product ID	Size
P1762	1 mg
P1762	2 mg
P1762	5 mg

References Wong IP, Driessler F, Khor EC, et al. Peptide YY regulates bone remodeling in mice: a link between gut and skeletal biology. *PLoS One*. 2012;7(7):e40038. PMID: 22792209.

Shi YC, Hämmerle CM, Lee IC, et al. Adult-onset PYY overexpression in mice reduces food intake and increases lipogenic capacity. *Neuropeptides*. 2012 Aug;46(4):173-82. PMID: 22575886.

Tough IR, Forbes S, Tolhurst R, et al. Endogenous peptide YY and neuropeptide Y inhibit colonic ion transport, contractility and transit differentially via Y1 and Y2 receptors. *Br J Pharmacol*. 2011 Sep;164(2b):471-84. PMID: 21457230.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.