

## Peptide YY (PYY) (3-36), porcine

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| <b>Cat. No.:</b>            | HY-P1021  |
| <b>CAS No.:</b>             | 126339-09-1   |
| <b>Molecular Formula:</b>   | C <sub>176</sub> H <sub>272</sub> N <sub>52</sub> O <sub>54</sub>   |
| <b>Molecular Weight:</b>    | 3980.42   |
| <b>Sequence:</b>            | Ala-Lys-Pro-Glu-Ala-Pro-Gly-Glu-Asp-Ala-Ser-Pro-Glu-Glu-Leu-Ser-Arg-Tyr-Tyr-Ala-Ser<br>-Leu-Arg-His-Tyr-Leu-Asn-Leu-Val-Thr-Arg-Gln-Arg-Tyr-NH <sub>2</sub> |
| <b>Sequence Shortening:</b> | AKPEAPGEDASPEELSRYYASLRHYLNLVTRQRY-NH <sub>2</sub>  |
| <b>Target:</b>              | Neuropeptide Y Receptor   |
| <b>Pathway:</b>             | GPCR/G Protein; Neuronal Signaling  |
| <b>Storage:</b>             | Please store the product under the recommended conditions in the Certificate of Analysis.   |

### BIOLOGICAL ACTIVITY

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| <b>Description</b>                  | Peptide YY (PYY) (3-36), porcine is a gut hormone peptide that acts as a Y2 receptor agonist to reduce appetite.  |
| <b>IC<sub>50</sub> &amp; Target</b> | Y2 receptor <sup>[1]</sup>  |
| <b>In Vitro</b>                     | Peptide YY (PYY) (3-36), porcine is a Y2 receptor agonist, generated via cleaving the first two amino acids at the N terminus of PYY1-36 by enzyme dipeptidyl peptidase-IV (DPP-IV), and can reduce food intake <sup>[1]</sup> .<br>MCE has not independently confirmed the accuracy of these methods. They are for reference only. |
| <b>In Vivo</b>                      | In mice, actinonin significantly prolongs the anorectic effect of PYY <sub>3-36</sub> (50 nmol/kg) and maintains higher PYY <sub>3-36</sub> plasma levels than treatment with PYY <sub>3-36</sub> alone <sup>[1]</sup> .<br>MCE has not independently confirmed the accuracy of these methods. They are for reference only.         |

### PROTOCOL

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| <b>Animal Administration</b> <sup>[1]</sup> | Mice <sup>[1]</sup><br>Mice are divided into four treatment groups and administered an injection (maximum volume, 100 µL, sc) of either: 1) saline (n = 10), 2) phosphoramidon (10 mg/kg) (n = 10), 3) PYY <sub>3-36</sub> (50 nmol/kg) (n = 10), or 4) PYY <sub>3-36</sub> (50 nmol/kg) and phosphoramidon (10 mg/kg) (n = 10). This dose of phosphoramidon inhibits NEP activity for 4 h. Body weight is measured at 0 and 24 h after injection. Food intake is measured at 1, 2, 3, 4, 8, and 24 h after injection <sup>[1]</sup> .<br>MCE has not independently confirmed the accuracy of these methods. They are for reference only. |
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### CUSTOMER VALIDATION

- J Pharm Biomed Anal. 11 December 2021, 114518.

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## REFERENCES

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[1]. Addison ML, et al. A role for metalloendopeptidases in the breakdown of the gut hormone, PYY 3-36. *Endocrinology*. 2011 Dec;152(12):4630-40.

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

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