

## Neuropeptide Y (3-36) (porcine)

<b>Cat. No.:</b>	HY-P3676
<b>CAS No.:</b>	143863-88-1
<b>Molecular Formula:</b>	C <sub>176</sub> H <sub>271</sub> N <sub>53</sub> O <sub>54</sub>
<b>Molecular Weight:</b>	3993.36
<b>Sequence Shortening:</b>	SKPDNPGEDAPAEDLARYYSALRHYINLITRQRY-NH2
<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

<b>Description</b>	Neuropeptide Y (3-36) (porcine) is an agonist of neuropeptide Y (NPY) receptor subtype Y <sub>2</sub> , and stimulates feeding in rats. Neuropeptide Y (3-36) (porcine) is a highly Y <sub>2</sub> selective ligand compared with nselective Y <sub>1</sub> /Y <sub>2</sub> receptor ligand, Neuropeptide Y 1-36 <sup>[1][2][3]</sup> .								
<b>IC<sub>50</sub> &amp; Target</b>	NPY Y <sub>2</sub> receptor								
<b>In Vitro</b>	Neuropeptide Y (3-36) (porcine) accounts for 35% of NPY-like immunoreactivity in porcine brain <sup>[2]</sup> . Neuropeptide Y (3-36) (porcine) shows high affinity for Y <sub>2</sub> -like receptors on CHP234 cells, and light affinity Y <sub>1</sub> -like receptors on SK-N-MC cells <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.								
<b>In Vivo</b>	Neuropeptide Y (3-36) (porcine) (0.24-24 nM; i.c.v.; single dose) induces feeding in the rat in a dose-dependent manner <sup>[1]</sup> . Neuropeptide Y (3-36) (porcine) (4 µg, 8 µg; i.c.v.; single dose) significantly increased food intake at 2 and 3 h, results dose-dependently orexigenic effect in rainbow trout ( <i>Oncorhynchus mykiss</i> ) <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.								
	<table> <tr> <td>Animal Model:</td> <td>Adult male Wistar rats (250-300 g)<sup>[1]</sup></td> </tr> <tr> <td>Dosage:</td> <td>0.24, 0.72, 2.4, 7.2, 24 nM per animal</td> </tr> <tr> <td>Administration:</td> <td>Intracerebroventricular injection; single dose</td> </tr> <tr> <td>Result:</td> <td>Stimulated rat feeding dose-dependently. Produced no feeding effect alone, that Y<sub>2</sub> activation alone elicited no feeding response.</td> </tr> </table>	Animal Model:	Adult male Wistar rats (250-300 g) <sup>[1]</sup>	Dosage:	0.24, 0.72, 2.4, 7.2, 24 nM per animal	Administration:	Intracerebroventricular injection; single dose	Result:	Stimulated rat feeding dose-dependently. Produced no feeding effect alone, that Y <sub>2</sub> activation alone elicited no feeding response.
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### REFERENCES

- [1]. O'Shea D, et al. Neuropeptide Y induced feeding in the rat is mediated by a novel receptor. *Endocrinology*. 1997 Jan;138(1):196-202.
- [2]. Grandt D, et al. Neuropeptide Y 3-36 is an endogenous ligand selective for Y<sub>2</sub> receptors. *Regul Pept*. 1996 Nov 14;67(1):33-7.

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

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