

## Neuropeptide Y (18-36) (porcine)

<b>Cat. No.:</b>	HY-P3678
<b>CAS No.:</b>	114495-97-5
<b>Molecular Formula:</b>	C <sub>112</sub> H <sub>174</sub> N <sub>36</sub> O <sub>27</sub>
<b>Molecular Weight:</b>	2456.8
<b>Sequence Shortening:</b>	ARYYSALRHYINLITRQRY-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 (18-36) (porcine) is a competitive neuropeptide Y (NPY) cardiac receptor antagonist. Neuropeptide Y (18-36) (porcine) inhibits the binding of I-NPY to cardiac ventricular membranes in a concentration-dependent manner with an IC <sub>50</sub> value of 158 nM and an K <sub>i</sub> value of 140 nM. Neuropeptide Y (18-36) (porcine) can be used for the research of congestive heart failure <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	IC <sub>50</sub> : 158 nM (I-NPY); K <sub>i</sub> : 140 nM (I-NPY) <sup>[1]</sup>
<b>In Vitro</b>	<p>Neuropeptide Y (18-36) (porcine) inhibits the binding of I-NPY to rat cardiac ventricular membranes in a concentration-dependent manner with an IC<sub>50</sub> value of 158 nM and an K<sub>i</sub> value of 140 nM<sup>[1]</sup>.</p> <p>Neuropeptide Y (18-36) (porcine) (1 μM) shifts the inhibitory adenylate cyclase activity dose-response curve of NPY to the right in a parallel fashion<sup>[1]</sup>.</p> <p>Neuropeptide Y (18-36) (porcine) (1 μM) completely abolishes the effect of NPY (10 nM) that alone caused 80% of the maximum inhibition of adenylate cyclase activity<sup>[1]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

### REFERENCES

[1]. A Balasubramaniam, et al. Neuropeptide Y (18-36) is a competitive antagonist of neuropeptide Y in rat cardiac ventricular membranes. J Biol Chem. 1990 Sep 5;265(25):14724-7.

---

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA