Neuropeptide Y (2-36) (porcine)

Cat. No.:	HY-P3677
CAS No.:	102961-52-4
Molecular Formula:	$C_{181}H_{278}N_{54}O_{55}$
Molecular Weight:	4090.47
Sequence Shortening:	PSKPDNPGEDAPAEDLARYYSALRHYINLITRQRY-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

Neuropeptide Y (2-36) (porcine) is a porcine-derived neuropeptide with 97.14% homology to rat/human origin. Neuropeptide Y (2-36) (porcine) is also a rat neuropeptide receptor agonist, with EC_{50} values of 1.2, 1.6 and 3.4 nM for receptor of Y5, Y2 and Y1 respectively. Neuropeptide Y (2-36) (porcine) can be used in studies related to obesity and eating disorders[1].

In Vitro

The following information is for reference:
Neuropeptide Y (2-36) (porcine): PSKPDNPGEDAPAEDLARYYSALRHYINLITRQRY-NH2
Neuropeptide Y (2-36) (human, rat): PSKPDNPGEDAPAEDMARYYSALRHYINLITRQRY-NH2 (97.14% homology to porcine).
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

Neuropeptide Y (2-36) (porcine) (1.23 μg/rat; i.c.v.; single) induces food intake in rats[1].
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Animal Model:	Male Sprague-Dawley rats (180-220 g)[1].
Dosage:	1.23 μg/rat (300 pmol/rat)
Administration:	Intracerebroventricular injection; single
Result:	Increased food intake to 5.0 g 4 hours later.

REFERENCES

[1]. Gerald C, et al. A receptor subtype involved in neuropeptide-Y-induced food intake. Nature. 1996 Jul 11;382(6587):168-71.

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

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