

Neuropeptide Y (1-24) (human)

Cat. No.:	HY-P3679
CAS No.:	131448-51-6
Molecular Formula:	C ₁₁₆ H ₁₇₀ N ₃₀ O ₄₀ S
Molecular Weight:	2656.83
Sequence Shortening:	YPSKPDNPGEDAPAEDMARYYSAL-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 (1-24) (human) is a neuropeptide with potencies in inhibiting the electricity stimulated twitch response of rat vas deferens. Neuropeptide Y (1-24) (human) stimulates N-methyl-D-aspartate (NMDA)-induced neuronal activation in the rat CA3 region of the dorsal hippocampus in vivo ^{[1][2]} .
In Vitro	Neuropeptide Y (1-24) (human) dose-dependently enhances N-methyl-D-aspartate (NMDA)-induced activation of CA3 dorsal hippocampus pyramidal neurons ^[1] . Neuropeptide Y (1-24) (human) selectively increases the amplitude of the twitch response to electrical stimulation at low micromolar concentrations but shows no affinity toward [3H]NPY brain receptor sites and no inhibition of the twitch response in the rat vas deferens preparation at concentrations up to 1.0 mM ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Monnet FP, et al. Neuropeptide Y potentiates selectively the N-methyl-D-aspartate response in the rat CA3 dorsal hippocampus. I. Involvement of an atypical neuropeptide Y receptor. J Pharmacol Exp Ther. 1992 Dec;263(3):1212-8.
- [2]. Martel JC, et al Comparative structural requirements of brain neuropeptide Y binding sites and vas deferens neuropeptide Y receptors. Mol Pharmacol. 1990 Oct;38(4):494-502.

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

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