

Neuropeptide Y (scrambled)

Chemical Properties

CAS No.:	TP2194
Formula:	C190H287N55O57
Molecular Weight:	4253.7
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Neuropeptide Y (NPY) is a 36-amino acid neuropeptide that exerts its activity via G-protein-coupled receptors. NPY is widely distributed in the peripheral and central nervous systems. It modulates a variety of physiological processes, e.g. the central regulation of vasoconstriction, memory retention and food intake, and the regulation of circadian rhythm.
In vitro	Scrambled NPY peptide treatment had no effect on VEGF expression in 4T1 cells. Previous treatment with scrambled NPY at concentrations ranging from 10 ⁻¹⁰ to 10 ⁻⁷ M made conditioned media from 4T1 cells show no difference in the number of complete endothelial networks or branch points versus control in endothelial tube formation assays [2][3].
In vivo	In trimethyltin-treated (TMT-treated) rats, treatment with scrambled NPY for 24 h made the expression of Bdnf, NpyR, neurogenic and antiapoptotic genes comparable to that of saline-injected animals (without significant differences). In TMT-treated rats, both saline and scNPY showed no significant modulation (p > 0.05) in the expression levels of Npy1R, Npy2R, and Npy5R [4][5].

Solubility Information

Solubility	H2O: 1 mg/ml (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.235 mL	1.175 mL	2.351 mL
5 mM	0.047 mL	0.235 mL	0.47 mL
10 mM	0.024 mL	0.118 mL	0.235 mL
50 mM	0.005 mL	0.024 mL	0.047 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Inhibitors · Natural Compounds · Compound Libraries

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