

Neuropeptide Y (scrambled)

Chemical Properties

CAS No. :

Formula: C190H287N55O57

Molecular Weight: 4253.7

Keep away from moisture

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

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.
Targets(IC50)	Others
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 (0.24 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.2351 mL	1.1754 mL	2.3509 mL
5 mM	0.047 mL	0.2351 mL	0.4702 mL
10 mM	0.0235 mL	0.1175 mL	0.2351 mL
50 mM	0.0047 mL	0.0235 mL	0.047 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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