

Neuropeptide Y (porcine, bovine) TFA

Chemical Properties

CAS No. :

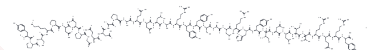
Formula: C190H287N55O57.XCF3COOH

Molecular Weight: 4253.70

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), a neuropeptide, plays roles in regulating appetite, vasoconstriction, cardiac contractility, and intestinal secretion, acting as an agonist for NPY receptors Y1, Y2, and Y5. Expressed ubiquitously, NPY modulates cellular responses by selectively inhibiting forskolin-induced cAMP accumulation in L-M(TK-) cells expressing rat Y1 or Y2 and in HEK293 cells expressing rat Y5, more so than in cells expressing rat Y4 receptors (EC50s = 0.15, 2.7, 0.66, and >1,000 nM, respectively). Additionally, it elevates perfusion pressure in isolated guinea pig hearts (EC30 = 1.3 nM) and, when administered intracerebroventricularly at 300 pmol/animal, it notably increases food intake in rats.
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Solubility Information

Solubility	Ethanol: 2 mg/mL (0.47 mM), Sonication is recommended. DMSO: 30 mg/mL (7.05 mM), Sonication is recommended. DMF: 30 mg/mL, Sonication is recommended. PBS pH 7.2: Slightly soluble (< 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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