

[D-Trp34]-Neuropeptide Y Acetate

Chemical Properties

CAS No. :

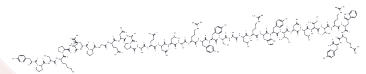
Formula: C198H293N55O58

Molecular Weight: 4371.78

Store at low temperature, 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	[D-Trp34]-Neuropeptide Y Acetate is a potent and selective agonist of neuropeptide Y (NPY) Y5 receptor. [D-Trp34]-Neuropeptide acetate Y is a significantly less potent agonist at the NPY Y1, Y2, Y4, and y6 receptors. [D-Trp34]-Neuropeptide Y Acetate markedly increases food intake in rats.
Targets(IC50)	Neuropeptide Y Receptor
In vitro	[D-Trp34]-Neuropeptide Y Acetate exhibits pKi values of 6.49, 5.43, 7.08, 7.53, 6.55, 5.95, 6.85, 7.41 for hY1, hY2, hY4, hY5, rY1, rY2, rY4, rY5 in CHO cells. [D-Trp34]-Neuropeptide Y Acetate exhibits pEC50 values of 6.44, <6, 6.28, 7.82 for rY1, rY2 in CHO cells and rY4, rY5 in HEK-293 cells[1].
In vivo	[D-Trp34]-Neuropeptide Y Acetate (0, 8 and 16 µg/rat; I.C.V) stimulates food intake to the same extent in both lean and obese rats 1 h after injection at a dose of 16 µg in male Zucker rats[2].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.2287 mL	1.1437 mL	2.2874 mL
5 mM	0.0457 mL	0.2287 mL	0.4575 mL
10 mM	0.0229 mL	0.1144 mL	0.2287 mL
50 mM	0.0046 mL	0.0229 mL	0.0457 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.

Reference

E M Parker, et al. [D-Trp(34)] neuropeptide Y is a potent and selective neuropeptide Y Y(5) receptor agonist with dramatic effects on food intake. *Peptides*. 2000 Mar;21(3):393-9.

Bernard Beck, et al. Responsiveness of obese Zucker rats to [D-Trp34]-NPY supports the targeting of Y5 receptor for obesity treatment. *Nutr Neurosci*. Oct-Dec 2007;10(5-6):211-4.

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