

[D-Trp34]-Neuropeptide Y

Chemical Properties

CAS No.:	153549-84-9
Formula:	C196H289N55O56
Molecular Weight:	4311.77
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Potent neuropeptide Y (NPY) Y5 receptor agonist (pEC50 values are 7.82, 6.28, 6.44 and > 6 at rat Y5, Y4, Y1 and Y2 receptors respectively) that displays > 26-fold, > 1000-fold and > 1000-fold selectivity over Y1, Y2 and Y4 receptors respectively. Induces hyperphagia, body weight gain, adiposity, hypercholesterolemia, hyperinsulinemia and hyperleptinemia in vivo. Orally active.
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Solubility Information

Solubility	20% acetonitrile: 0.20 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	0.232 mL	1.16 mL	2.319 mL
5 mM	0.046 mL	0.232 mL	0.464 mL
10 mM	0.023 mL	0.116 mL	0.232 mL
50 mM	0.005 mL	0.023 mL	0.046 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.

Reference

1. Parker et al (2000) [D-Trp34] neuropeptide Y is a potent and selective neuropeptide Y Y5 receptor agonist with dramatic effects on food intake. *Peptides* 21 393 PMID:
2. Mashiko et al (2003) Characterization of neuropeptide Y (NPY) Y5 receptor-mediated obesity in mice: chronic intracerebroventricular infusion of D-Trp34NPY. *Endocrinology* 144 1793 PMID:
3. Beck et al (2007) Responsiveness of obese Zucker rats to [D-Trp34]-NPY supports the targeting of Y5 receptor for obesity treatment. *Nutr.Neurosci.* 10 211 PMID:

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