

## [D-Trp34]-Neuropeptide Y

## Chemical Properties

CAS No. :	153549-84-9
Formula:	C196H289N55O56
Molecular Weight:	4311.77
Storage:	Keep away from moisture Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>

YPSKPDNPGEDAPAEDLARYYSALRHYINLITR-[D-Trp]-RY-NH<sub>2</sub>

## 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.
Targets(IC50)	Neuropeptide Y Receptor

## Solubility Information

Solubility	20% acetonitrile: 0.2 mg/mL (0.05 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	0.2319 mL	1.1596 mL	2.3192 mL
5 mM	0.0464 mL	0.2319 mL	0.4638 mL
10 mM	0.0232 mL	0.116 mL	0.2319 mL
50 mM	0.0046 mL	0.0232 mL	0.0464 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

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:

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:

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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