# [D-Trp34]-Neuropeptide Y

Cat. No.:	HY-P1322
CAS No.:	153549-84-9
Molecular Formula:	$C_{_{196}}H_{_{289}}N_{_{55}}O_{_{56}}$
Molecular Weight:	4311.72
Sequence Shortening:	YPSKPDNPGEDAPAEDLARYYSALRHYINLITR-{D-Trp}-RY-NH2
Target:	Neuropeptide Y Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Sealed storage, away from moisture and light, under nitrogen
	Powder -80°C 2 years
	-20°C 1 year
	* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture
	and light, under nitrogen)

Product Data Sheet

# Description[D-Trp34]-Neuropeptide Y is a potent and selective neuropeptide Y (NPY) Y5 receptor agonist. [D-Trp34]-Neuropeptide Y is a<br/>significantly less potent agonist at the NPY Y1, Y2, Y4, and y6 receptors. [D-Trp34]-Neuropeptide Y markedly increases food<br/>intake in rats<sup>[1][2]</sup>.IC50 & TargetNPY Y5 receptorIn Vitro[D-Trp34]-Neuropeptide Y has 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<br/>CHO cells. [D-Trp34]-Neuropeptide Y has pEC50 values of 6.44, <6, 6.28@7.82 for rY1, rY2 in CHO cells and rY4, rY5 in HEK-293<br/>cells<sup>[1]</sup>.<br/>MCE has not independently confirmed the accuracy of these methods. They are for reference only.In Vivo[D-Trp34]-Neuropeptide Y (0, 8 and 16 µg/rat; 1.C.V) stimulats food intake to the same extent in both lean and obese rats 1 h<br/>after injection at a dose of 16 µg in male Zucker rats<sup>[2]</sup>.<br/>MCE has not independently confirmed the accuracy of these methods. They are for reference only.

## REFERENCES

[1]. 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.

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



**BIOLOGICAL ACTIVITY** 

## Caution: Product has not been fully validated for medical applications. For research use only.

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