

[Leu31,Pro34]-Neuropeptide Y (porcine)

Cat. No.:	HY-P0208	
CAS No.:	125580-28-1	
Molecular Formula:	C ₁₉₀ H ₂₈₆ N ₅₄ O ₅₆	
Molecular Weight:	4222.63	YPSKPDNPGEDAPAEDLARYYSALRHYINLLTRPRY-NH ₂
Sequence:	Tyr-Pro-Ser-Lys-Pro-Asp-Asn-Pro-Gly-Glu-Asp-Ala-Pro-Ala-Glu-Asp-Leu-Ala-Arg-Tyr-Tyr-Ser-Ala-Leu-Arg-His-Tyr-Ile-Asn-Leu-Leu-Thr-Arg-Pro-Arg-Tyr-NH ₂	
Sequence Shortening:	YPSKPDNPGEDAPAEDLARYYSALRHYINLLTRPRY-NH ₂	
Target:	Neuropeptide Y Receptor	
Pathway:	GPCR/G Protein; Neuronal Signaling	
Storage:	Sealed storage, away from moisture	
	Powder	-80°C 2 years -20°C 1 year
	* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)	

SOLVENT & SOLUBILITY

In Vitro

H₂O : ≥ 100 mg/mL (23.68 mM)
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
	Concentration				
	1 mM		0.2368 mL	1.1841 mL	2.3682 mL
	5 mM		0.0474 mL	0.2368 mL	0.4736 mL
	10 mM		0.0237 mL	0.1184 mL	0.2368 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

[Leu31,Pro34]- Neuropeptide Y (porcine), a Neuropeptide Y (NPY) analog, is a selective NPY Y1 receptor agonist. [Leu31,Pro34]- Neuropeptide Y (porcine) exhibits anxiolytic effects^{[1][2]}.

IC₅₀ & Target

NPY Y₁ receptor

In Vivo

[Leu31,Pro34]-Neuropeptide Y (porcine) displaces radiolabeled NPY from cells that express Y1 receptors in a series of human neuroblastoma cell lines and on rat PC-12 cells^[1].
 MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Fuhlendorff J, et, al. [Leu31, Pro34]neuropeptide Y: a specific Y1 receptor agonist. Proc Natl Acad Sci U S A. 1990 Jan;87(1):182-6.

[2]. Kokare DM, et, al. Interaction between neuropeptide Y and alpha-melanocyte stimulating hormone in amygdala regulates anxiety in rats. Brain Res. 2005 May 10;1043(1-2):107-14.

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

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