

Neuropeptide Y (3-36) (human, rat)

Cat. No.:	HY-P2543
CAS No.:	150138-78-6
Molecular Formula:	C ₁₇₅ H ₂₆₉ N ₅₃ O ₅₄ S
Molecular Weight:	4011.5
Sequence:	Ser-Lys-Pro-Asp-Asn-Pro-Gly-Glu-Asp-Ala-Pro-Ala-Glu-Asp-Met-Ala-Arg-Tyr-Tyr-Ser-Ala-Leu-Arg-His-Tyr-Ile-Asn-Leu-Ile-Thr-Arg-Gln-Arg-Tyr-NH ₂ <small>SKPDNPGEDAPAEDMARYYSALRHYINLITRQRY-NH₂</small>
Sequence Shortening:	SKPDNPGEDAPAEDMARYYSALRHYINLITRQRY-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	DMSO : 100 mg/mL (24.93 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		1 mg	5 mg	10 mg
		1 mM	0.2493 mL	1.2464 mL	2.4928 mL
		5 mM	0.0499 mL	0.2493 mL	0.4986 mL
	10 mM	0.0249 mL	0.1246 mL	0.2493 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (0.62 mM); Clear solution 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (0.62 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Neuropeptide Y (3-36) (human, rat), a neuropeptide Y (NPY) metabolite formed from dipeptidyl peptidase-4 (DPP4), is a selective Y ₂ receptor agonist. Neuropeptide Y (3-36) (human, rat) is a NPY metabolite formed from dipeptidyl peptidase-4 (DPP4). Neuropeptide Y (3-36) (human, rat) decreases release of norepinephrine via the Y ₂ receptor ^{[1][2]} .
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REFERENCES

[1]. Hubers SA, et al. DPP (Dipeptidyl Peptidase)-4 Inhibition Potentiates the Vasoconstrictor Response to NPY (Neuropeptide Y) in Humans During Renin-Angiotensin-Aldosterone System Inhibition. *Hypertension*. 2018;72(3):712-719.

[2]. Grandt D, et al. Neuropeptide Y 3-36 is an endogenous ligand selective for Y2 receptors. *Regul Pept*. 1996;67(1):33-37.

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

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