

Peptide YY (PYY) (3-36), Human

Cat. No.:	HY-P10000	
CAS No.:	123583-37-9	
Molecular Formula:	C ₁₈₀ H ₂₇₉ N ₅₃ O ₅₄	Ile-Lys-Pro-Glu-Ala-Pro-Gly-Glu-Asp-
Molecular Weight:	4049	Ala-Ser-Pro-Glu-Glu-Leu-Asn-Arg-Tyr-
Sequence:	Ile-Lys-Pro-Glu-Ala-Pro-Gly-Glu-Asp-Ala-Ser-Pro-Glu-Glu-Leu-Asn-Arg-Tyr-Tyr-Ala-Ser- Leu-Arg-His-Tyr-Leu-Asn-Leu-Val-Thr-Arg-Gln-Arg-Tyr-NH ₂	Tyr-Ala-Ser-Leu-Arg-His-Tyr-Leu-Asn- Leu-Val-Thr-Arg-Gln-Arg-Tyr-NH ₂
Sequence Shortening:	IKPEAPGEDASPEELNRYASLRHYLNLVTRQRY-NH ₂	
Target:	Neuropeptide Y Receptor	
Pathway:	GPCR/G Protein; Neuronal Signaling	
Storage:	Sealed storage, away from moisture and light	
	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)	

SOLVENT & SOLUBILITY

In Vitro

DMSO : 25 mg/mL (6.17 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	0.2470 mL	1.2349 mL	2.4697 mL
	5 mM	0.0494 mL	0.2470 mL	0.4939 mL
	10 mM	---	---	---

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

BIOLOGICAL ACTIVITY

Description	Peptide YY (PYY) (3-36), Human is an endogenous appetite suppressing peptide. Peptide YY (PYY) (3-36), Human, a neuropeptide Y (NPY) Y ₂ receptor agonist, is a powerful inhibitor of intestinal secretion ^[1] .
IC₅₀ & Target	NPY Y ₂ receptor

REFERENCES

[1]. Moriya R, et al. NPY Y₂ receptor agonist PYY(3-36) inhibits diarrhea by reducing intestinal fluid secretion and slowing colonic transit in mice. *Peptides*. 2010;31(4):671-675.

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

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