[cPP1-7,NPY19-23,Ala31,Aib32,Gln34]-hPancreatic Polypeptide

HY-P1324					
313988-89-5					
C ₁₈₃ H ₂₈₁ N ₅₇ O ₅₄ S ₂					
4207.66 gpsqptypgdnatpeqmaryysalrryinma/ai					
GPSQPTYPGDNATPEQMARYYSALRRYINMA{Aib}RQRY-NH2					
Neuropeptide Y Receptor					
GPCR/G Protein; Neuronal Signaling					
Sealed storage, away from moisture					
Powder	-80°C	2 years			
	-20°C	1 year			
* In colvon	+. 00°C C				
	Neuropepi GPCR/G Pr Sealed sto Powder	Neuropeptide Y Rece GPCR/G Protein; Neu Sealed storage, away Powder -80°C -20°C	Neuropeptide Y Receptor GPCR/G Protein; Neuronal Signaling Sealed storage, away from moisture Powder -80°C 2 years -20°C 1 year		

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	Solvent Mass Concentration	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	0.2377 mL	1.1883 mL	2.3766 mL
	5 mM	0.0475 mL	0.2377 mL	0.4753 mL
	10 mM	0.0238 mL	0.1188 mL	0.2377 mL

BIOLOGICAL ACTIVITY								
Description	[cPP1-7,NPY19-23,Ala31,Aib32,Gln34]-hPancreatic Polypeptide is a potent and selective neuropeptide Y Y ₅ receptor agonist with an IC ₅₀ of 0.24 nM for binding to the hY ₅ receptor. [cPP1-7,NPY19-23,Ala31,Aib32,Gln34]-hPancreatic Polypeptide induces a high amount of food intake ^[1] .							
IC ₅₀ & Target	hY ₅ receptor 0.24 nM (IC ₅₀)	hY ₁ receptor 530 nM (IC ₅₀)	hY ₂ receptor >500 nM (IC ₅₀)	hY ₄ receptor 51 nM (IC ₅₀)				
In Vitro	[cPP1-7,NPY19-23,Ala31,Aib32,Gln34]-hPancreatic Polypeptide has IC ₅₀ s of 530 nM, >500 nM, 51 nM for binding to the hY ₁ , hY 4, hY ₂ receptors ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.							
In Vivo	[cPP1-7,NPY19-23,Ala31,Aib32,Gln34]-hPancreatic Polypeptide (0.2, 2 nmol/rat) induces a high amount of food intake in a dose-dependent manner in adult male rats weighing 340-400 g ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.							

REFERENCES

[1]. C Cabrele , et al. The first selective agonist for the neuropeptide YY₅ receptor increases food intake in rats. J Biol Chem. 2000 Nov 17;275(46):36043-8.

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

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