

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

Chemical Properties

CAS No. :	313988-89-5
Formula:	C183H281N57O54S2
Molecular Weight:	4207.67
Storage:	Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.

GPSQPTYPGDNATPEQMARYYSALRRYINM(Aib)RQRY-NH₂

Biological Description

Description	Potent, selective peptide agonist for the neuropeptide Y Y5 receptor (IC50 values for inhibition of NPY binding to human Y5, Y1, Y2 and Y4 receptors are 0.24, 530, > 500, and 51 nM respectively, Ki at Y5 = 0.1 - 0.15 nM). Stimulates food intake in vivo.
Targets(IC50)	Neuropeptide Y Receptor

Solubility Information

Solubility	H2O: 1 mg/mL (0.24 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
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
50 mM	0.0048 mL	0.0238 mL	0.0475 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Cabrele et al (2000) The first selective agonist for the neuropeptide YY5 receptor increases food intake in rats. J. Biol.Chem. 275 36043 PMID:

Dumont et al (2005) BODIPY®-conjugated neuropeptide Y ligands: new fluorescent tools to tag Y1, Y2, Y4 and Y5 receptor subtypes. Br.J.Pharmacol. 146 1069 PMID:

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481