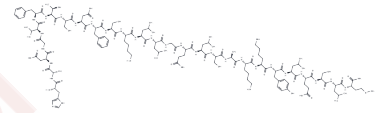


PHM-27 (human)

Chemical Properties

CAS No. :	87403-73-4
Formula:	C135H214N34O40S
Molecular Weight:	2985.44
Storage:	Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Endogenous peptide product of human prepro-VIP and analog of porcine PHI-27; potent agonist for the human calcitonin receptor (EC50 = 11 nM). Transgenic mice expressing the human VIP/PHM 27 gene in pancreatic β -islets display enhanced glucose-induced insulin secretion.
Targets(IC50)	CGRP Receptor

Solubility Information

Solubility	5% acetonitrile / water: 1 mg/mL (0.33 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	0.335 mL	1.6748 mL	3.3496 mL
5 mM	0.067 mL	0.335 mL	0.6699 mL
10 mM	0.0335 mL	0.1675 mL	0.335 mL
50 mM	0.0067 mL	0.0335 mL	0.067 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

Itoh et al (1983) Human preprovasoactive intestinal polypeptide contains a novel PHI-27-like peptide, PHM-27. Nature 304 547 PMID:

Kato et al (1994) Transgenic mice overexpressing human vasoactive intestinal peptide (VIP) gene in pancreatic β cells. J.Biol.Chem. 269 21223 PMID:

Ma et al (2004) Discovery of novel peptide/receptor interactions: identification of PHM-27 as a potent agonist of the human calcitonin receptor. Biochem.Pharmacol. 67 1279 PMID:

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