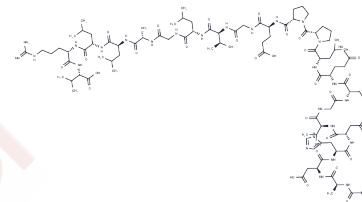


PEN (human)

Chemical Properties

CAS No. : 597578-70-6
 Formula: C97H159N27O32
 Molecular Weight: 2215.49
 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.



Biological Description

Description	PEN (human) is an Endogenous peptide GPR83 agonist. ProSAAS-derived neuropeptide.
Targets(IC50)	GPCR19

Solubility Information

Solubility: PBS (pH 7.4): 1 mg/mL (0.45 mM), Sonication is recommended.
 (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.4514 mL	2.2568 mL	4.5137 mL
5 mM	0.0903 mL	0.4514 mL	0.9027 mL
10 mM	0.0451 mL	0.2257 mL	0.4514 mL
50 mM	0.009 mL	0.0451 mL	0.0903 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

- Gomes et al (2016) Identification of GPR83 as the receptor for the neuroendocrine peptide PEN. Sci.Signal 9 ra43 PMID:
 Mack et al (2019) Neuropeptide PEN and its receptor GPR83: distribution, signaling, and regulation. ACS Chem Neurosci. 10 1884 PMID:

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