

PEN (mouse)

## Chemical Properties

CAS No.:	1236955-25-1
Formula:	C102H169N27O34
Molecular Weight:	2317.62
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

## Biological Description

Description	Endogenous peptide GPR83 agonist. ProSAAS-derived neuropeptide. Activates phospholipase C (PLC)-mediated signaling cascade in mouse hypothalamus.
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## Solubility Information

Solubility	PBS (pH 7.4): 1 mg/mL (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.431 mL	2.157 mL	4.315 mL
5 mM	0.086 mL	0.431 mL	0.863 mL
10 mM	0.043 mL	0.216 mL	0.431 mL
50 mM	0.009 mL	0.043 mL	0.086 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

### Reference

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

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Tel:781-999-4286

E-mail:[info@targetmol.com](mailto:info@targetmol.com)

Address:36 Washington Street,Wellesley Hills,MA 02481