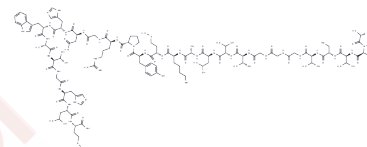


## GRP (porcine)

## Chemical Properties

CAS No. :	74815-57-9
Formula:	C126H198N38O31S2
Molecular Weight:	2805.31
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	Mammalian bombesin-like peptide neurotransmitter that is an agonist for the gastrin-releasing peptide receptor (GRPR). GRP has been reported to activate GABAergic interneurons in the amygdala leading to increased GABA release and fear suppression in mice in vivo. Also involved in mitogenesis, and GI tract and appetite regulation.
Targets(IC50)	Cholecystokinin Receptor

## Solubility Information

Solubility	H2O: 1 mg/mL (0.36 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	0.3565 mL	1.7823 mL	3.5647 mL
5 mM	0.0713 mL	0.3565 mL	0.7129 mL
10 mM	0.0356 mL	0.1782 mL	0.3565 mL
50 mM	0.0071 mL	0.0356 mL	0.0713 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

Dudai (2003) Neurobiology: Fear thou not. Nature 421 325 PMID:

Schjoldager et al (1991) Gastrin-releasing peptide is a transmitter mediating porcine gallbladder contraction. Am. J.Physiol. 260 G577 PMID:

Shumyatsky et al (2002) Identification of a signaling network in lateral nucleus of amygdala important for inhibiting memory specifically related to learned fear. Cell 111 905 PMID:

Woodruff et al (1996) Bombesin receptors in the brain. Ann.N.Y.Acad.Sci. 780 223 PMID:

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