

## Neuromedin S(rat)

## Chemical Properties

CAS No. :	843782-19-4
Formula:	C193H307N57O49S
Molecular Weight:	4241.97
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>

LPRLLHTDSRATIDFPKKDATIDFPKKDLFRPRN-NH<sub>2</sub>

## Biological Description

Description	Potent, endogenous neuromedin U receptor agonist (EC <sub>50</sub> values are 65 and 91 pM at NMU1 and NMU2 respectively). Induces phase shifts in the circadian rhythm of locomotor activity following i.c.v. administration. Potent endogenous anorexigenic peptide.
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## Solubility Information

Solubility	20% acetonitrile / water: 0.5 mg/mL (0.12 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	0.2357 mL	1.1787 mL	2.3574 mL
5 mM	0.0471 mL	0.2357 mL	0.4715 mL
10 mM	0.0236 mL	0.1179 mL	0.2357 mL
50 mM	0.0047 mL	0.0236 mL	0.0471 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

- Mori et al (2005) Identification of neuromedin S and its possible role in the mammalian circadian oscillator system. EMBO J. 24 325 PMID:
- Ida et al (2005) Neuromedin S is a novel anorexigenic hormone. Endocrinology 146 4217 PMID:
- Mitchell et al (2009) Emerging pharmacology and physiology of neuromedin U and the structurally related peptide neuromedin S. Br.J.Pharmacol. 158 87 PMID:

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