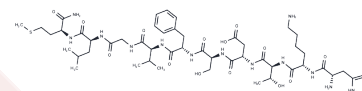


## Neurokinin A

## Chemical Properties

CAS No. :	86933-74-6
Formula:	C <sub>50</sub> H <sub>80</sub> N <sub>14</sub> O <sub>14</sub> S
Molecular Weight:	1133.32
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	Neurokinin A (NKA), formerly known as Substance K, is a neurologically active peptide translated from the pre-protachykinin gene.
Targets(IC50)	Neurokinin receptor
In vitro	Neurokinin A (Substance K), a peptide neurotransmitter from the tachykinin family, plays a key role as a mediator in human airway and gastrointestinal tissues through its action on the NK-2 receptor, primarily found on smooth muscle cells and linked to a GTP-binding protein. As part of the tachykinin family, known for its involvement in both the central and peripheral nervous systems and its broad tissue presence, Neurokinin A shares a common COOH-terminal structure Phe-X-Gly-Leu-Met-NH with other family members, including well-recognized peers like Substance P.

## Solubility Information

Solubility	H <sub>2</sub> O: 100 mg/mL (88.24 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	0.8824 mL	4.4118 mL	8.8236 mL
5 mM	0.1765 mL	0.8824 mL	1.7647 mL
10 mM	0.0882 mL	0.4412 mL	0.8824 mL
50 mM	0.0176 mL	0.0882 mL	0.1765 mL

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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

Gerard NP, et al. The human neurokinin A (substance K) receptor. Molecular cloning of the gene, chromosome localization, and isolation of cDNA from tracheal and gastric tissues. J Biol Chem. 1990 Nov 25;265(33):20455-62.

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