

Neurokinin A

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|----------------------|---|
| Cat. No.: | HY-P0197 |
| CAS No.: | 86933-74-6 |
| Molecular Formula: | C ₅₀ H ₈₀ N ₁₄ O ₁₄ S |
| Molecular Weight: | 1133.32 |
| Sequence: | His-Lys-Thr-Asp-Ser-Phe-Val-Gly-Leu-Met-NH ₂ |
| Sequence Shortening: | HKTDSFVGLM-NH ₂ |
| Target: | Neurokinin Receptor |
| Pathway: | GPCR/G Protein; Neuronal Signaling |
| Storage: | Sealed storage, away from moisture |
| | Powder -80°C 2 years |
| | -20°C 1 year |

HKTDSFVGLM-NH₂

* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)

SOLVENT & SOLUBILITY

In Vitro

H₂O : 100 mg/mL (88.24 mM; Need ultrasonic)

| Preparing Stock Solutions | Solvent | Mass | 1 mg | 5 mg | 10 mg |
|---------------------------|---------------|------|-----------|-----------|-----------|
| | Concentration | | | | |
| | 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 |

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Neurokinin A (Substance K), a peptide neurotransmitter of the tachykinin family, acts via the NK-2 receptor. Neurokinin A acts as a major mediator in human airway and gastrointestinal tissues^[1].

IC₅₀ & Target

NK-2 receptor^[1]

In Vitro

Neurokinin A (substance K) is a peptide neurotransmitter of the tachykinin family with potential as a major mediator in human airway and gastrointestinal tissues. Neurokinin A acts via the NK-2 receptor believed to be localized on smooth muscle cells and pharmacologically coupled to a GTP-binding protein. Neurokinin A is a member of a family of peptide neurotransmitters known as tachykinins. These peptides are associated with the central and peripheral nervous systems and display a wide tissue distribution. Tachykinins share the COOH-terminal structure Phe-X-Gly-Leu-Met-NH. The best known members of this family are Substance P and Neurokinin A or Substance K^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Life Sci. 2021 Jan 5;118967.
- Authorea. September 19, 2022.

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REFERENCES

[1]. 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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