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**Product Data Sheet**

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Product Name: Neurokinin A (porcine)

Cat. No.: GC11738

**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

M.Wt 1133.3

Solubility Soluble to 1 mg/ml in 10% acetonitrile / sterile water

Storage Desiccate at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure **Background**

Neurokinin A acts via neurokinin 2 (NK-2) receptor.

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].

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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