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**Product Data Sheet**

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Product Name: Neurokinin A(4-10)

Cat. No.: GC36725

**Chemical Properties**

Cas. No. 97559-35-8

Formula  $C_{34}H_{54}N_8O_{10}S$  M.Wt 766.91

Solubility Soluble in DMSO Storage Store 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 (4-10) is a tachykinin NK2 receptor agonist. NK2 receptor[1]

Neurokinin A (NKA) and its truncated form NKA(4-10) are potent spasmogens of human colon circular muscle, an action mediated exclusively via tachykinin NK2 receptors. A structure-activity study of the neurokinin A (NKA) fragment NKA(4-10) is performed to investigate the importance of amino acid residues for receptor efficacy, potency and affinity at the NK2 receptor in human colon circular muscle. A high density of NK2 receptors has been demonstrated in this tissue, using in vitro autoradiography and radioligand binding[1].

[1]. Warner FJ, et al. Structure-activity relationship of neurokinin A(4-10) at the human tachykinin NK(2) receptor: the effect of amino acid substitutions on receptor affinity and function. *Biochem Pharmacol.* 2002 Jun 15;63(12):2181-6.

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

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