

# Hemokinin 1 (mouse)

Catalog No: tcsc7597



## Available Sizes

**Size:** 1mg

**Size:** 5mg

**Size:** 10mg



## Specifications

**CAS No:**

208041-90-1

**Formula:**

$C_{61}H_{100}N_{22}O_{15}S$

**Pathway:**

Neuronal Signaling;GPCR/G Protein

**Target:**

Neurokinin Receptor;Neurokinin Receptor

**Purity / Grade:**

>98%

**Solubility:**

10 mM in H<sub>2</sub>O

**Observed Molecular Weight:**

1413.65

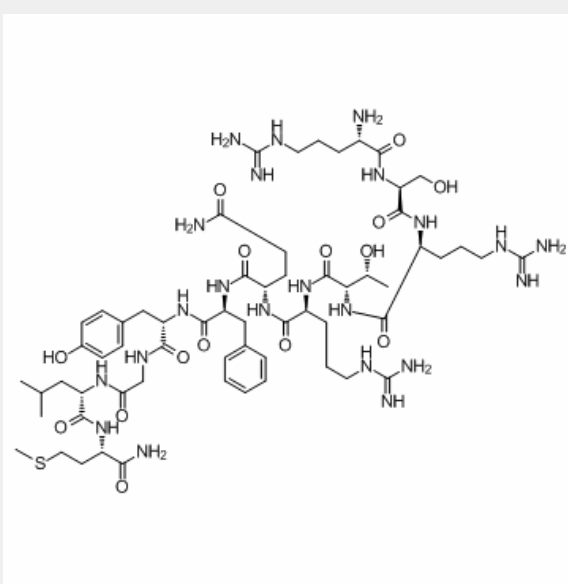
## Product Description

Hemokinin 1 (mouse) is a selective agonist of **neurokinin-1 receptor**, with **K<sub>i</sub>** of 0.175 nM and 560 nM for human NK1 receptor and human NK2 receptor, respectively.

IC<sub>50</sub> & Target: Ki: 0.175 nM (Human NK1 receptor), 560 nM (Human NK2 receptor)<sup>[1]</sup>

***In Vitro:*** Hemokinin 1 (mouse) (1 nM-3 μM) produces concentration-dependent contraction of RUB averaging 66±3% (n=6) of the maximal contraction produced by KCl (80 mM). Hemokinin 1 (mouse) (10 nM-10 μM) induces a quickly-developing contractile responses of GPI, as does the tachykinin NK3 receptor selective agonist senktide or neurokinin B (NKB). Hemokinin 1 (mouse) induces full agonist responses but with a 500 fold lower potency as compared to NKB<sup>[1]</sup>.

***In Vivo:*** Hemokinin 1 (mouse) (0.01-100 nmol/kg i.v., n=10) induces a dose-related hypotension that is maximal at the dose of 10 nmol/kg. For systolic blood pressure (SBP), the ED<sub>50</sub> value is 0.2 nmol/kg (0.1-0.4 nmol/kg) for Hemokinin 1 (mouse). For diastolic blood pressure (DBP), the ED<sub>50</sub> value is 0.1 nmol/kg (0.07-0.2 nmol/kg) for Hemokinin 1 (mouse). Hemokinin 1 (mouse) (0.1-100 nmol/kg, i.v.) induces a dose-related salivary secretion in atropine-pretreated rats<sup>[1]</sup>.



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!