Web: www.taiclone.com
Tel: +886-2-2735-9682
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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 H2O

Observed Molecular Weight:
1413.65

Product Description

Hemokinin 1 (mouse) is a selective agonist of **neurokinin-1 receptor**, with **K_i** of 0.175 nM and 560 nM for human NK1 receptor and human NK2 receptor, respectively.

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IC50 & Target: Ki: 0.175 nM (Human NK1 receptor), 560 nM (Human NK2 receptor)[1]

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[1].

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_{50} value is 0.2 nmol/kg (0.1-0.4 nmol/kg) for Hemokinin 1 (mouse). For diastolic blood pressure (DBP), the ED_{50} 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[1].