

Hemokinin 1 (mouse) acetate(208041-90-1 free base)

Chemical Properties

CAS No. :

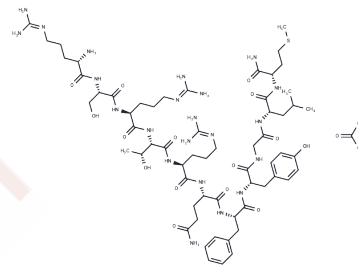
Formula: C63H104N22O17S

Molecular Weight: 1473.72

Keep away from moisture

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Hemokinin 1 (mouse) acetate is a selective excitogen 1 receptor agonist with a K_i value of 0.175 nM for the human NK1 receptor and 560 nM for the human NK2 receptor.
Targets(IC50)	Neurokinin receptor
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 ED50 value is 0.2 nmol/kg (0.1-0.4 nmol/kg) for Hemokinin 1 (mouse). For diastolic blood pressure (DBP), the ED50 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].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.6786 mL	3.3928 mL	6.7855 mL
5 mM	0.1357 mL	0.6786 mL	1.3571 mL
10 mM	0.0679 mL	0.3393 mL	0.6786 mL
50 mM	0.0136 mL	0.0679 mL	0.1357 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Francesca Bellucci, et al. Pharmacological profile of the novel mammalian tachykinin, hemokinin 1. Br J Pharmacol. 2002 Jan; 135(1): 266-274

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481