

Vasonatrin Peptide (VNP) TFA

Chemical Properties

CAS No. :

Formula: C126H199N36O38S3F3

Molecular Weight: 2979.39

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	Vasonatrin Peptide (VNP) TFA, a chimeric compound derived from atrial natriuretic peptide (ANP) and C-type natriuretic peptide (CNP), exhibits venodilating properties reminiscent of CNP, natriuretic effects akin to ANP, as well as unique arterial vasodilating capabilities not characteristic of either parent peptide. Additionally, VNP TFA confers cardioprotection in diabetic ischemia-reperfusion injury by attenuating endoplasmic reticulum (ER) stress through the cGMP-PKG signaling cascade [1] [2] [3].
In vitro	Vasonatrin Peptide (VNP) significantly augments both mRNA expression and protein secretion of adiponectin while concurrently inhibiting IL-6 production in mature adipocytes. Additionally, VNP notably elevates intracellular cGMP concentrations. These VNP effects can be replicated by 8-br-cGMP, but are inhibited by either HS-142-1, or KT-5823 [2].
In vivo	Vasonatrin peptide, administered intravenously at a dose of 100 µg/kg 10 minutes before reperfusion, mitigates myocardial ischemia-reperfusion injury in diabetic rats [3].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.3356 mL	1.6782 mL	3.3564 mL
5 mM	0.0671 mL	0.3356 mL	0.6713 mL
10 mM	0.0336 mL	0.1678 mL	0.3356 mL
50 mM	0.0067 mL	0.0336 mL	0.0671 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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