Data Sheet (Cat.No.T41065)



Atrial natriuretic factor (1-28) (human, porcine)

Chemical Properties

CAS No.: 91917-63-4

Formula: C127H205N45O39S3

Molecular Weight: 3082.49

Appearance: no data available

Storage: keep away from moisture

Storage: Rowdor: -20°C for 3 years Un solvent: -20°C for 3 yea

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

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Biological Description

Description	Atrial natriuretic factor (1-28) from both human and porcine sources is a powerful suppressor of pro-opiomelanocortin (POMC) mRNA, while it only has a modest inhibition effect on β EP-LI release.
In vitro	ANF-(1-28) significantly enhances the levels of guanosine 3',5'-cyclic monophosphate (cGMP) from 1.3 +/- 0.3 to 106 +/- 22 pmol cGMP/10 6 cells, with a 50% effective dosage (ED 50) of 1.2 nM[1].
In vivo	The infusion of ANF-(1-28) at a dosage of 0.5 μ g/kg/min significantly reduces the increase in plasma creatinine levels by about 50% daily throughout the study period[3].

Preparing Stock Solutions

	1mg	5mg	10mg	
1 mM	0.3244 mL	1.6221 mL	3.2441 mL	
5 mM	0.0649 mL	0.3244 mL	0.6488 mL	
10 mM	0.0324 mL	0.1622 mL	0.3244 mL	
50 mM	0.0065 mL	0.0324 mL	0.0649 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.

Reference

B M Fontoura, et al. Atrial natriuretic factor receptors in cultured renomedullary interstitial cells. Am J Physiol. 1990 Apr; 258(4 Pt 1): C692-9.

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