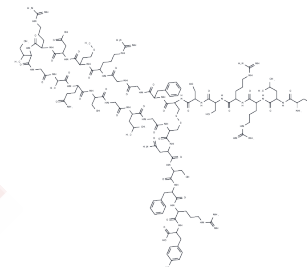


## Atrial natriuretic factor (1-28) (human, porcine)

## Chemical Properties

CAS No. :	91917-63-4
Formula:	C127H205N45O39S3
Molecular Weight:	3082.49
Storage:	Keep away from moisture Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	Atrial natriuretic factor (1-28) from both human and porcine sources is a potent suppressor of pro-opiomelanocortin (POMC) mRNA, exerting only a modest inhibitory effect on $\beta$ EP-LI release.
Targets(IC50)	Endogenous Metabolite
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 <sup>6</sup> 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 $\mu$ 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.

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

- 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.
- T T Tan, et al. ANF(1-28) is a potent suppressor of pro-opiomelanocortin (POMC) mRNA but a weak inhibitor of beta EP-LI release from AtT-20 cells. *J Endocrinol.* 1994 Nov;143(2):R1-4.
- D M Pollock, et al. Beneficial effect of the ANF analog A68828 on recovery from ischemic acute renal failure. *Ren Fail.* 1992;14(2):141-6.

**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