

## Product Data Sheet

Product Name: Atrial natriuretic factor (1-28) (rat)  
 Cat. No.: GC11314

### Chemical Properties

Cas. No. 88898-17-3

Chemical Name (1Z,3S,4Z,6S,7Z,9S,10Z,12S,13Z,15S)-1-((4R,5Z,8Z,10S,11Z,14E,16S,17Z,19S,20Z,22S,23Z,26Z,28S,29Z,31S,32Z,34S,35Z,37S,38Z,40S,41Z,44Z,47Z,49S,50E,52R)-52-((Z)-((2S,3Z,5S,6Z,8S,9Z,11S,12Z,14S,15Z,17S)-17-amino-8,11-bis(3-guanidinopropyl)-1,4,7,10,13,16,18-h

SMILES CC[C@]([C@@]1([H])C(O)=N/C(C(O)=N/[C@@]/C(O)=N/[C@@]/C(O)=N/[C@@]/C(O)=N/C(C(O)=N/[C@@]/C(O)=N/[C@@]/C(O)=N/[C@@]/C(O)=N/[C@@]/C(O)=N/[C@@]/C(O)=O)([H])CC2=CC=C(O)C=C2)([H])CCNC(N)=N)([H])CC3=CC=CC=C3)([H])CO

Formula  $C_{128}H_{205}N_{45}O_{39}S_2$  M.Wt 3062.43

Solubility Soluble in Water Storage Desiccate at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure

### Background

Atrial Natriuretic Peptide (ANP) (1-28), rat is a major circulating form of ANP in rats, potently inhibits Angiotensin II (Ang II)-stimulated endothelin-1 secretion in a concentration-dependent manner.

Rat ANP (1-28) and rat BNP-45, which are the respective major circulating forms of ANP and BNP in rats, potently inhibited Ang II-stimulated endothelin-1 secretion in a concentration-dependent manner. Rat ANP (5-25) is less effective than Rat ANP(1-28) with respect to inhibiting immunoreactive (ir)-endothelin-1 secretion and increasing cellular cyclic GMP. Rat ANP (1-28) inhibits the secretion of ir-endothelin-1 in a concentration-dependent manner between 0.01 and 1 μM[1].

### References:

[1]. Kohno M, et al. Angiotensin II stimulates endothelin-1 secretion in cultured rat mesangial cells. *Kidney Int.* 1992 Oct;42(4):860-6.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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