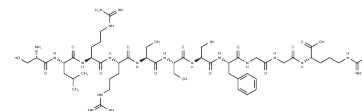


## ANP (1-11), rat

## Chemical Properties

|                   |                                                                   |
|-------------------|-------------------------------------------------------------------|
| CAS No. :         | TP2221                                                            |
| Formula:          | C <sub>49</sub> H <sub>84</sub> N <sub>20</sub> O <sub>15</sub> S |
| Molecular Weight: | 1225.38                                                           |
| Appearance:       | no data available                                                 |
| Storage:          | keep away from moisture                                           |
|                   | Powder: -20°C for 3 years   In solvent: -80°C for 1 year          |



## Biological Description

|               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description   | Atrial Natriuretic Peptide (ANP) has the sequence of H-Ser-Leu-Arg-Arg-Ser-Ser-Cys-Phe-Gly-Gly-Arg-OH, is a 28 amino acid peptide. ANP is a powerful vasodilator, and a protein (polypeptide) hormone secreted by heart muscle cells. It is involved in the homeostatic control of body water, sodium, potassium, and fat (adipose tissue). It is released by muscle cells in the upper chambers (atria) of the heart (atrial myocytes), in response to high blood pressure. ANP acts to reduce the water, sodium, and adipose loads on the circulatory system, thereby reducing blood pressure. |
| Targets(IC50) | Others                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

## Solubility Information

|            |                                                                                       |
|------------|---------------------------------------------------------------------------------------|
| Solubility | DMSO: ≥122.5mg/mL,<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|---------------------------------------------------------------------------------------|

## Preparing Stock Solutions

|       | 1mg       | 5mg       | 10mg      |
|-------|-----------|-----------|-----------|
| 1 mM  | 0.8161 mL | 4.0804 mL | 8.1607 mL |
| 5 mM  | 0.1632 mL | 0.8161 mL | 1.6321 mL |
| 10 mM | 0.0816 mL | 0.408 mL  | 0.8161 mL |
| 50 mM | 0.0163 mL | 0.0816 mL | 0.1632 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

Purushothaman, K. R., Krishnan, P., Purushothaman, M., et al. Expression of angiotensin-converting enzyme 2 and its end product angiotensin 1-7 is increased in diabetic atheroma: Implications for inflammation and

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