

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

Cat. No.:	HY-P2281
CAS No.:	91917-63-4
Molecular Formula:	C ₁₂₇ H ₂₀₅ N ₄₅ O ₃₉ S ₃
Molecular Weight:	3080.46
Sequence:	Ser-Leu-Arg-Arg-Ser-Ser-Cys-Phe-Gly-Gly-Arg-Met-Asp-Arg-Ile-Gly-Ala-Gln-Ser-Gly-Leu -Gly-Cys-Asn-Ser-Phe-Arg-Tyr
Sequence Shortening:	SLRRSSCFGGRMDRIGASGLGCNSFRY
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	Atrial natriuretic factor (1-28) (human, porcine) is a potent suppressor of pro-opiomelanocortin (POMC) mRNA but a weak inhibitor of βEP-LI release ^{[1][2]} .
In Vitro	ANF-(1-28) markedly increaseS guanosine 3',5'-cyclic monophosphate (cGMP) from 1.3 +/- 0.3 to 106 +/- 22 pmol cGMP/10(6) cells [50% effective dosage (ED ₅₀) = 1.2 nM] ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	ANF-(1-28) (0.5 μg/kg/min) infusion attenuates the rise in plasma creatinine levels by approximately 50% on each day of the study ^[3] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Sci Adv. 2024 Jan 5;10(1):eadi2689.

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REFERENCES

- [1]. 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.
- [2]. 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.
- [3]. 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.

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

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