Atrial Natriuretic Peptide (ANP) (1-28), rat

Cat. No.:	HY-P1236
CAS No.:	88898-17-3
Molecular Formula:	$C_{128}H_{205}N_{45}O_{39}S_2$
Molecular Weight:	3062.41
Sequence:	Ser-Leu-Arg-Arg-Ser-Ser-Cys-Phe-Gly-Gly-Arg-Ile-Asp-Arg-Ile-Gly-Ala-Gln-Ser-Gly-Leu-Gly-Cys-Asn-Ser-Phe-Arg-Tyr (Disulfide bridge: Cys7-Cys23)
Sequence Shortening:	SLRRSSCFGGRIDRIGAQSGLGCNSFRY (Disulfide bridge: Cys7-Cys23)
Target:	Endothelin Receptor
Pathway:	GPCR/G Protein
Storage:	Sealed storage, away from moisture Powder -80°C 2 years -20°C 1 year * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)

BIOLOGICAL ACTIVITY

Description	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.
IC_{50} & Target	Endothelin-1[1]
In Vitro	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 that 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]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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.

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