

## Atriopeptin II (rat, mouse)

Cat. No.:	HY-P3060
CAS No.:	89139-54-8
Molecular Formula:	C <sub>98</sub> H <sub>156</sub> N <sub>34</sub> O <sub>32</sub> S <sub>2</sub>
Molecular Weight:	2386.63
Sequence:	Ser-Ser-Cys-Phe-Gly-Gly-Arg-Ile-Asp-Arg-Ile-Gly-Ala-Gln-Ser-Gly-Leu-Gly-Cys-Asn-Ser-Phe-Arg (Disulfide bridge: Cys3-Cys19)
Sequence Shortening:	SSCFGGRIDRIGAQSGLGCNSFR (Disulfide bridge: Cys3-Cys19)
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

### BIOLOGICAL ACTIVITY

Description	Atriopeptin II rat, mouse is an atrial natriuretic peptide, which acts as diuretic and natriuretic agent, and a potent relaxant of vascular smooth muscle <sup>[1]</sup> .
In Vitro	Atriopeptin II rat, mouse (10 nM, 100 min) exhibits vasodilatory effect, increases cyclic GMP concentrations and activates cyclic GMP-kinase in rat ex vivo thoracic aorta <sup>[1]</sup> . Atriopeptin II rat, mouse (0-100 nM) stimulates the testosterone production with half-maximum stimulation of 2.6 nM <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. Fiscus RR, et al., Atriopeptin II elevates cyclic GMP, activates cyclic GMP-dependent protein kinase and causes relaxation in rat thoracic aorta. *Biochim Biophys Acta*. 1985 Jul 30;846(1):179-84.

[2]. Mukhopadhyay AK, et al., Testosterone production by mouse Leydig cells is stimulated in vitro by atrial natriuretic factor. *FEBS Lett*. 1986 Jun 23;202(1):111-6.

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

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