



LKT Laboratories, Inc.

## A-type Natriuretic Peptide (1-30), frog

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### Product Information

**Product ID** A5461  
**CAS No.**  
**Chemical Name**  
  
**Synonym** Atrial natriuretic peptide, ANP  
  
**Formula**  $C_{131}H_{215}N_{49}O_{41}S_4$   
**Formula Wt.** 3260.73  
**Melting Point**  
**Purity**  $\geq 95\%$   
**Solubility** Soluble in water, acid.

H-Ala-Pro-Arg-Ser-Met-Arg-Arg-  
Ser-Ser-Asp-Cys-Phe-Gly-Ser-  
Arg-Ile-Asp-Arg-Ile-Gly-Ala-Gln-  
Ser-Gly-Met-Gly-Cys-Gly-Arg-  
Phe-OH  
(Disulfide Bridge Cys11-Cys27)

#### *Bulk quantities available upon request*

Product ID	Size
A5461	0.5 mg
A5461	1 mg
A5461	2.5 mg

**Store Temp** -20° C  
**Ship Temp** Ambient

**Description** Atrial natriuretic peptide (ANP) is a cardiomodulatory peptide that binds the natriuretic peptide receptor type A (NPR-A), increasing levels of cGMP and activating cGMP-dependent kinases. ANP exhibits vasodilatory/hypotensive, diuretic, and natriuretic activities, increasing perfusion and decreasing blood pressure in several models. ANP may also exhibit anticancer benefit, targeting the Ras-MEK-ERK signaling pathway.

**References** Vesely DL. New anticancer agents: hormones made within the heart. *Anticancer Res.* 2012 Jul;32(7):2515-21. PMID: 22753708.

Woodard GE, Rosado JA. Natriuretic peptides in vascular physiology and pathology. *Int Rev Cell Mol Biol.* 2008;268:59-93. PMID: 18703404.

**Caution:** This product is intended for laboratory and research use only. It is not for human or drug use.