



LKT Laboratories, Inc.

C-type Natriuretic Peptide (1-22), pig/human/rat

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Product Information

Product ID C5260

CAS No.

Chemical Name

Synonym CNP

Formula C₉₃H₁₅₇N₂₇O₂₈S₃

Formula Wt. 2197.61

Melting Point

Purity ≥95%

Solubility Soluble in water (1 mg/mL).

Gly-Leu-Ser-Lys-Gly-Cys-Phe-
Gly-Leu-Iys-Leu-Asp-Arg-Ile-
Gly-Ser-Met-Ser-Gly-Leu-Gly-
Cys
(Disulfide bridge Cys6-Cys22)

Product ID	Size
C5260	1 mg

Store Temp -20° C

Ship Temp Ambient

Description C-type natriuretic peptide (CNP) is an endogenous peptide expressed in the central nervous system, bone, and vasculature; CNP -22 is a mature form of CNP that is found predominantly in plasma. CNP exhibits vasodilatory, natriuretic, diuretic, and cardioprotective activities. CNP also exhibits anti-fibrotic potential, regulating cardiac hypertrophy and remodeling. This peptide inhibits the renin-angiotensin system, increasing endothelial permeability, and plays a role in bone growth.

References Del Ry S. C-type natriuretic peptide: a new cardiac mediator. *Peptides*. 2013 Feb;40:93-8. PMID: 23262354.

Calvieri C, Rubattu S, Volpe M. Molecular mechanisms underlying cardiac antihypertrophic and antifibrotic effects of natriuretic peptides. *J Mol Med (Berl)*. 2012 Jan;90(1):5-13. PMID: 21826523.

Nishikimi T, Kuwahara K, Nakao K. Current biochemistry, molecular biology, and clinical relevance of natriuretic peptides. *J Cardiol*. 2011 Mar;57(2):131-40. Erratum in: *J Cardiol*. 2012 Jan;59(1):98-9. PMID: 21296556.

Del Ry S, Passino C, Emdin M, et al. C-type natriuretic peptide and heart failure. *Pharmacol Res*. 2006 Nov;54(5):326-33. PMID: 16904335.

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