



LKT Laboratories, Inc.

## B-type Natriuretic Peptide (1-32),

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### Product Information

Product ID B5561

CAS No. 114471-18-0

**Chemical Name**

Synonym Brain natriuretic peptide, BNP, Nesiritide

Formula  $C_{143}H_{244}N_{50}O_{42}S_4$

Formula Wt. 3464.1

**Melting Point**

Purity  $\geq 97\%$

Solubility Soluble in water, acid.

Store Temp  $-20^{\circ}C$

Ship Temp Ambient

**Description** Brain natriuretic peptide (BNP) binds the natriuretic peptide receptor type B (NPR-B) to exert cardiomodulatory activity. BNP is secreted by the heart; it displays lipolytic effects, contributing to fatty acid mobilization in congestive heart failure. High levels of BNP are predictive of cardiovascular problems such as heart failure and stroke. BNP also inhibits de novo collagen synthesis, increasing expression of matrix metalloproteinases 1, 2, and 3 in vitro.

H-Ser-Pro-Lys-Met-Val-Gln-Gly-Ser-Gly-Cys-Phe-Gly-Arg-Lys-Met-Asp-Arg-Ile-Ser-Ser-Ser-Ser-Gly-Leu-Gly-Cys-Lys-Val-Leu-Arg-Arg-His-OH  
(Disulfide Bridge Cys10-Cys26)

**Bulk quantities available upon request**

Product ID	Size
B5561	0.5 mg
B5561	1 mg
B5561	2.5 mg

**References** García-Berrococo T, Giralt D, Bustamante A, et al. B-type natriuretic peptides and mortality after stroke: a systematic review and meta-analysis. *Neurology*. 2013 Dec 3;81(23):1976-85. PMID: 24186915.

Polak J, Kotrc M, Wedellova Z, et al. Lipolytic effects of B-type natriuretic peptide 1-32 in adipose tissue of heart failure patients compared with healthy controls. *J Am Coll Cardiol*. 2011 Sep 6;58(11):1119-25. PMID: 21884948.

Tsuruda T, Boerrigter G, Huntley BK, et al. Brain natriuretic Peptide is produced in cardiac fibroblasts and induces matrix metalloproteinases. *Circ Res*. 2002 Dec 13;91(12):1127-34. PMID: 12480813.

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