



LKT Laboratories, Inc.

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

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Product Information

Product ID B5560

CAS No. 133448-20-1

Chemical Name

Synonym Brain natriuretic peptide, BNP

Formula C₁₄₆H₂₃₉N₄₇O₄₄S₃

Formula Wt. 3453.01

Melting Point

Purity ≥95%

Solubility Soluble in water, acid.

Store Temp -20° 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-Asn-Ser-Lys-Met-Ala-His-Ser-Ser-Ser-Cys-Phe-Gly-Gln-Lys-Ile-Asp-Arg-Ile-Gly-Ala-Val-Ser-Arg-Leu-Gly-Cys-Asp-Gly-Leu-Arg-Leu-Phe-OH

(Disulfide Bridge Cys10-Cys26)

Bulk quantities available upon request

Product ID	Size
B5560	0.5 mg
B5560	1 mg
B5560	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.