



6352 CORTE DEL ABETO, STE B
CARLSBAD, CA 92011 USA
01.858.642.1988 • WWW.ATSBIO.COM

B-type Natriuretic Peptide Human Recombinant CYTOKINE

Catalog Number: PRP-368
Quantity: 2 micrograms, 10 micrograms, 1 milligram
Format: Sterile-filtered white lyophilized (freeze-dried) powder
Host: *E. coli*

Background:

Natriuretic Peptide Precursor B acts as a cardiac hormone with a variety of biological actions including natriuresis, diuresis, vasorelaxation, and inhibition of renin and aldosterone secretion. It is thought to play a key role in cardiovascular homeostasis. It also helps restore the body's salt and water balance and improves heart function.

Specificity and Preparation:

B-type Natriuretic Peptide (BNP) human recombinant produced in *E. coli* is a single, non-glycosylated, polypeptide chain containing 32 amino acids and having a molecular mass of 3464 Dalton. It is purified by proprietary chromatographic techniques. Purity is greater than 95.0% as determined by RP-HPLC and SDS-Page. BNP was lyophilized from 0.4 ml PBS buffer containing 20 mM phosphate buffer and 0.6 mM sodium chloride.

Amino acid sequence: SPKMVQSGSGCFGRKMDRISSSSGLGCKVLRH

Usage and Storage:

It is recommended to reconstitute the lyophilized B-type Natriuretic Peptide in sterile 18 M Ω -cm H₂O not less than 100 μ g/ml, which can then be further diluted to other aqueous solutions. Working dilutions must be determined by end user.

Lyophilized material although stable at room temperature for 3 weeks, should be stored desiccated below -18 $^{\circ}$ C. Upon reconstitution material should be stored at 4 $^{\circ}$ C between 2-7 days and for future use below -18 $^{\circ}$ C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid repeated freezing and thawing. Gently spin down material before use; 5-10 seconds in a microfuge should be adequate.

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