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B-type Natriuretic Peptide Human CYTOKINE

Catalog Number: PRP-369CYT
Quantity: 10 milligrams, 25 milligrams, 100 milligrams
Format: Sterile-filtered white lyophilized (freeze-dried) powder
Host: *synthetic peptide*

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 is a polypeptide chain containing 32 amino acids and having a molecular mass of 3464 Dalton. The protein was lyophilized without additives. Purity is greater than 98.0% as determined by RP-HPLC and SDS-PAGE.

Amino acid sequence: SPKMOVQSGCFGRKMDRISSSSGLGCKVLRH-OH.

Usage and Storage:

It is recommended to reconstitute the lyophilized B-type Natriuretic Peptide in sterile 18 MΩ-cm H₂O not less than 100 μg/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° C. Upon reconstitution material should be stored at 4°C between 2-7 days and for future use below -18°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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