Recombinant Human B-type Natriuretic Peptide (rh BNP)

Synonyms: Natriuretic Peptide Precursor B, NPPB.

Introduction: 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.BNP helps restore the body's salt and water balance and improves heart function.

Description: Recombinant human BNP produced in E.Coli is a single, non-glycosylated polypeptide chain containing 32 amino acids and having a molecular mass of 3464 kDa. rh BNP is purified by proprietary chromatographic techniques.

Source: Escherichia Coli.

Physical Appearance: Sterile filtered white lyophilized (freeze-dried) powder.

Formulation: Lyophilizied from 0.4ml PBS buffer containing 20mM phophate buffer and 0.6mM NaCl. The aliquots of 1μg and 2 μg contain Trehalose 5% (w/vol) for better recovery

Solubility: It is recommended to reconstitute the lyophilized rh BNP in sterile H2O not less than 100 μ g/ml, which can then be further diluted to other aqueous solutions.

Stability: Lyophilized rh BNP although stable at room temperature for 3 weeks, should be stored desiccated below -18° C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Purity: Greater than 95.0% as determined by:

(a) Analysis by RP-HPLC.

(b) Analysis by SDS-PAGE.

Amino acid Sequence: SPKMVQGSGCFGRKMDRISSSSGLGCKVLRRH

Biological Activity: rh BNP is fully biologically active when compared to standards.

Protein content: Protein quantitation was carried out by two independent methods:

- UV spectroscopy at 280 nm.
- 2. Analysis by RP-HPLC, using a calibrated solution of IL-9 as a Reference Standard.

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small	2 μg	Cat.N°	11343782
medium	10 µg	Cat.N°	11343783
large	50 µg	Cat.N°	11343785