



B-type Natriuretic Protein, human recombinant (rHuBNP)

Catalog No: 87386
Lot No: XXXXX
Source: *E. coli*
Synonyms: NPPB, Natriuretic Peptide Precursor B, BNP, B-type Natriuretic 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. Helps restore the body's salt and water balance. Improves heart function.

Description

B-type Natriuretic Peptide 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. NPPB is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

Formulation

Natriuretic Peptide Precursor B was lyophilized from 0.4 ml PBS buffer containing 20 mM phosphate buffer and 0.6 mM sodium chloride.

Solubility

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.

Stability

Lyophilized B-type Natriuretic Peptide, although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution NPPB 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). 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

SPKMQVQSGC FGRKMDRISS SSSLGCKVLR RH

Usage

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