

Recombinant Human BNP-32 Protein, N-6×His and C-mIgG Fc tagged

Cat. No. NPPB-13H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human BNP-32 with N-6×His and C- mouse IgG Fc tag was derived from the transfected human HEK293 cells.
Species	Human
Source	HEK293
ProteinLength	Ser103-His134
Description	This gene is a member of the natriuretic peptide family and encodes a secreted protein which functions as a cardiac hormone. The protein undergoes two cleavage events, one within the cell and a second after secretion into the blood. The protein's biological actions include natriuresis, diuresis, vasorelaxation, inhibition of renin and aldosterone secretion, and a key role in cardiovascular homeostasis. A high concentration of this protein in the bloodstream is indicative of heart failure. The presence of myocardial injury is a significant predictor of mortality in hospitalized coronavirus disease 2019 (COVID-19) patients, and there is evidence of increased levels of natriuretic peptide B in hospitalized non-survivor COVID-19 patients. The protein also acts as an antimicrobial peptide with antibacterial and antifungal activity. Mutations in this gene have been associated with postmenopausal osteoporosis.
Form	Lyophilized powder
Molecular Mass	Recombinant human BNP-32 has a calculated molecular mass of 30 kDa (including a

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C-terminal mouse IgG Fc tag, 27 kDa). Due to the abundant glycosylation, it migrates as approximately 37 kDa protein band in SDS-PAGE under DTT, beta-mercaptoethanol reducing conditions.

Purity

> 90%, SDS-PAGE under reducing conditions and visualized by Coomassie blue staining

Storage

Upon arrival, the protein may be stored for 2 weeks at 4 centigrade. For long term storage, it is recommended to store at -20 centigrade or -80 centigrade in appropriate aliquots. Avoid repeated freeze-thaw cycles.

Storage Buffer

Lyophilized from a 0.2 µm filtered solution in PBS.

Shipping

Ice packs

Reconstitution

Briefly spin the vial and bring the contents to the bottom prior to opening. It is recommended to reconstitute at 0.5-1.0 mg/mL with sterile deionized water or 1×PBS.

GENE INFORMATION

Gene Name

NPPB natriuretic peptide B [Homo sapiens (human)]

Official Symbol

NPPB

Synonyms

NPPB; natriuretic peptide B; natriuretic peptide precursor B; natriuretic peptides B; natriuretic protein; brain type natriuretic peptide; gamma-brain natriuretic peptide; BNP;

Gene ID

4879

mRNA Refseq

NM_002521

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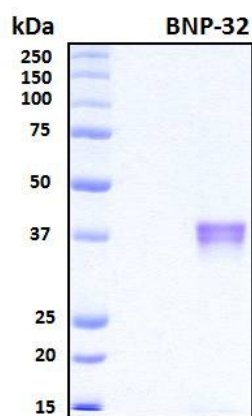
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Protein Refseq NP_002512

MIM 600295

UniProt ID P16860

SDS-PAGE



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