

Recombinant Human NPPB Protein, His&SUMO-tagged

Cat. No. NPPB-388H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human NPPB Protein (Ser103-His134) with N-His&SUMO tag was expressed in E. coli.
Species	Human
Source	E.coli
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	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 17.2 kDa Accurate Molecular Mass: 19 kDa

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Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in sterile water to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	NPPB natriuretic peptide B [Homo sapiens (human)]
Official Symbol	NPPB
Synonyms	NPPB; natriuretic peptide B; BNP; Iso-ANP; natriuretic peptides B; brain natriuretic factor prohormone; brain type natriuretic peptide; gamma-brain natriuretic peptide; natriuretic peptide precursor B; natriuretic protein; preproBNP; proBNP
Gene ID	4879
mRNA Refseq	NM_002521

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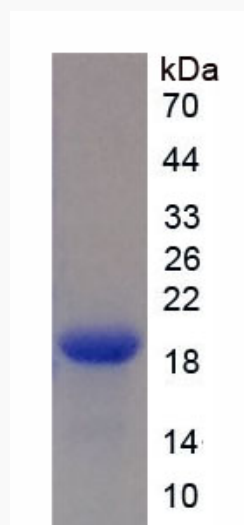
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Protein Refseq NP_002512

MIM 600295

UniProt ID P16860



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