

Recombinant Full Length Human NPPB Protein, His tagged

Cat. No. NPPB-02HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human BNP, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
ProteinLength	1-134 aa
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	Liquid in Phosphate-Buffered Saline (pH 7.4) 40% glycerol, 2mM DTT, 0.1mM PMSF, 1mM EDTA
Molecular Mass	14 kDa (129aa) confirmed by MALDI-TOF

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

AASequence	< MGSSHHHHHHSSGLVPRGSHM>HPLGSPGSASDLETSGLQEQRNHLQGKLS EQVEQTSLEPLQESPRPTGVWKSREVATEGIRGHRKMVLYTLRAPRSPKMOVQSGC FGRKMDRISSSSSGLGCKVLRRH
Endotoxin	< 1 EU/μg of protein (determined by LAL method)
Purity	> 85% by SDS-PAGE
Applications	SDS-PAGE
Notes	For research use only. This product is not intended or approved for human, diagnostics or veterinary use.
Storage	Can be stored at +2 to +8 centigrade for 1 week. For long term storage, aliquot and store at -20 to -80 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	0.5 mg/mL (determined by Bradford assay)
Reference	1. Harada H., et al. (1989) Cell. 58(4):729-739 2. Matsuyama T., et al. (1993) Cell 75(1):83-97

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;

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Gene ID 4879

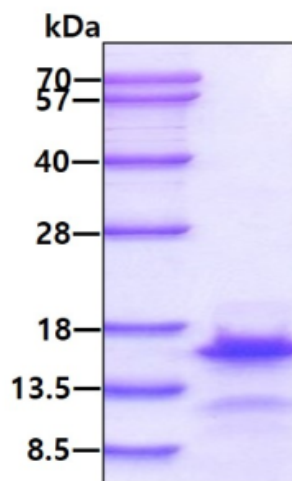
mRNA Refseq NM_002521

Protein Refseq NP_002512

MIM 600295

UniProt ID P16860

SDS-PAGE



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