

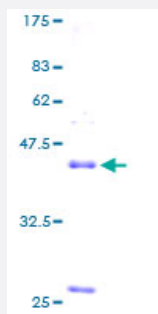
Full-Length

NPPB (Human) Recombinant Protein (P01)

Catalog # H00004879-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human NPPB full-length ORF (AAH25785, 1 a.a. - 134 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MDPQTAPSRALLLLFLHLAFLGGRSHPLGSPGSASDSETSGLQEQRNHLQGKLSELQVEQTSL EPLQESPRPTGVWKSREVATEGIRGHRKMVLYTLRAPRSPKMVQGSGCFGRKMDRISSSSGLG CKVLRRH
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	40.48
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — NPPB

Entrez GeneID [4879](#)

GeneBank Accession# [BC025785](#)

Protein Accession# [AAH25785](#)

Gene Name NPPB

Gene Alias BNP

Gene Description natriuretic peptide precursor B

Omim ID [600295](#)

Gene Ontology [Hyperlink](#)

Gene Summary 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. Mutations in this gene have been associated with postmenopausal osteoporosis. [provided by RefSeq]

Other Designations OTTHUMP00000002506|OTTHUMP00000044486|brain type natriuretic peptide|natriuretic protein

Publication Reference

- [BNP directly immunoregulates the innate immune system of cardiac transplant recipients in vitro.](#)

Shaw SM, Fildes JE, Puchalka CM, Basith M, Yonan N, Williams SG.

Transplant Immunology 2008 Sep; 20(3):199.

Application: Func, Human, PBMCs from cardiac transplant recipients

Pathway

- [Vascular smooth muscle contraction](#)

Disease

- [Alzheimer disease](#)
- [Atherosclerosis](#)
- [Cardiomyopathy](#)
- [Cardiovascular Diseases](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Diabetic Nephropathies](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Heart Failure](#)
- [Hypertension](#)
- [Hypertrophy](#)
- [Insulin Resistance](#)
- [Kidney Diseases](#)
- [Liver Cirrhosis](#)

- [Mental Disorders](#)
- [Metabolic Syndrome X](#)
- [Neoplasms](#)
- [Obesity](#)
- [Osteoporosis](#)
- [Renal Artery Obstruction](#)
- [Ventricular Dysfunction](#)