

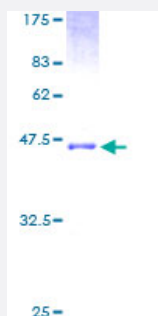
Full-Length

NPPA (Human) Recombinant Protein (P01)

Catalog # H00004878-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human NPPA full-length ORF (AAH05893, 1 a.a. - 153 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MSSFSTTTVSFLLLLAFQLLGQTRANPMYNAVSNADLMDFKNLLDHLEEKMPLEDEVVPPQVLS EPNEEAGAALSPLPEVPPWTGEVSPAQRDGGALGRGPWDSSDRSALLKSKLRALLTAPRSLRR SSCFGGRMDGIGAQSGLGCNSFRYRR
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	42.57
Interspecies Antigen Sequence	Mouse (80); Rat (80)
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 — NPPA

Entrez GeneID [4878](#)

GeneBank Accession# [BC005893](#)

Protein Accession# [AAH05893](#)

Gene Name NPPA

Gene Alias ANF, ANP, ATFB6, CDD-ANF, PND

Gene Description natriuretic peptide precursor A

Omim ID [108780](#)

Gene Ontology [Hyperlink](#)

Gene Summary The protein encoded by this gene belongs to the natriuretic peptide family. Natriuretic peptides are implicated in the control of extracellular fluid volume and electrolyte homeostasis. This protein is synthesized as a large precursor (containing a signal peptide), which is processed to release a peptide from the N-terminus with similarity to vasoactive peptide, cardiodilatin, and another peptide from the C-terminus with natriuretic-diuretic activity. Mutations in this gene have been associated with atrial fibrillation familial type 6. [provided by RefSeq]

Other Designations OTTHUMP00000002504|OTTHUMP00000044485|atrial natriuretic peptide|natriuretic peptide precursor A variant 2|pronatriodilatin

Pathway

- [Vascular smooth muscle contraction](#)

Disease

- [Albuminuria](#)
- [Amyotrophic lateral sclerosis](#)
- [Asthma](#)
- [Atherosclerosis](#)
- [Atrial Fibrillation](#)
- [Brain Ischemia](#)
- [Calcinosis](#)
- [Cardiomyopathy](#)
- [Cardiovascular Diseases](#)
- [Cerebral Palsy](#)
- [Cerebrovascular Accident](#)
- [Cerebrovascular Disorders](#)
- [Chorioamnionitis](#)
- [Constriction](#)
- [Coronary Artery Disease](#)
- [Coronary Disease](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Disease Progression](#)
- [Edema](#)
- [Fetal Membranes](#)
- [Gastroschisis](#)
- [Genetic Predisposition to Disease](#)

- [Glaucoma](#)
- [Glomerulonephritis](#)
- [Glucose Intolerance](#)
- [Heart Defects](#)
- [Hyperlipoproteinemia Type II](#)
- [Hypertension](#)
- [Hypertrophy](#)
- [Inflammation](#)
- [Insulin Resistance](#)
- [Kidney Diseases](#)
- [Kidney Failure](#)
- [Limb Deformities](#)
- [Liver Cirrhosis](#)
- [Mental Disorders](#)
- [Migraine Disorders](#)
- [Myocardial Infarction](#)
- [Obesity](#)
- [Obstetric Labor](#)
- [Osteoporosis](#)
- [Pre-Eclampsia](#)
- [Premature Birth](#)
- [Proteinuria](#)
- [Recurrence](#)
- [Stroke](#)
- [Ventricular Dysfunction](#)
- [Werner syndrome](#)