

NPPA (Human) Recombinant Protein

Catalog # P8980

Size 2 x 10 ug

Specification

Product Description	Human NPPA (P01160, 26 a.a. - 123 a.a.) partial-length recombinant protein with His tag at N-Terminus expressed in <i>Escherichia coli</i> .
Sequence	MKHHHHHHNPMYNAVSNADLMDFKNLLDHLEEKMPLEDEVVPPQVLSEPNEEAGAALSPLPEVPPWTGEVSPAQRDGGALGRGPWDSSDRSALLKSKLRALLTAPR.
Host	<i>Escherichia coli</i>
Theoretical MW (kDa)	11.7
Form	Lyophilized
Preparation Method	<i>Escherichia coli</i> expression system
Purity	> 95% by SDS PAGE
Storage Buffer	Lyophilized from 20 mM Tris buffer, 50 mM NaCl and 5% w/v trehalosa, pH 7.5.
Storage Instruction	Store at -20°C. Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles.

Applications

- SDS-PAGE

Gene Info — NPPA

Entrez GeneID	4878
Protein Accession#	P01160
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](#)