

Recombinant Rat Nppa Protein, His-tagged

Cat. No. Nppa-387R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Nppa Protein (Asn25-Arg122) with N-His tag was expressed in E. coli.
Species	Rat
Source	E.coli
ProteinLength	Asn25-Arg122
Description	Enables hormone activity. Involved in several processes, including cGMP biosynthetic process; cellular response to mechanical stimulus; and regulation of ion transport. Acts upstream of or within receptor guanylyl cyclase signaling pathway. Located in several cellular components, including brush border; mast cell granule; and perinuclear region of cytoplasm. Used to study congestive heart failure; pulmonary hypertension; and ureteral obstruction. Biomarker of acute kidney failure; artery disease (multiple); hypertrophic cardiomyopathy; and nephrosis. Human ortholog(s) of this gene implicated in artery disease (multiple); heart conduction disease (multiple); and peritonitis. Orthologous to human NPPA (natriuretic peptide A).
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 12.1 kDa
Purity	> 95%

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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	PBS, pH7.4, containing 0.01% SKL, 1 mM DTT, 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	Nppa natriuretic peptide A [Rattus norvegicus (Norway rat)]
Official Symbol	Nppa
Synonyms	NPPA; natriuretic peptide A; natriuretic peptides A; prepronatriodilatin; atrial natriuretic factor; atrial natriuretic peptide; natriuretic peptide precursor type A; Natriuretic peptide precursor A (pronatriodilatin, also Anf, Pnd); ANF; ANP; Pnd; RATANF
Gene ID	24602
mRNA Refseq	NM_012612
Protein Refseq	NP_036744

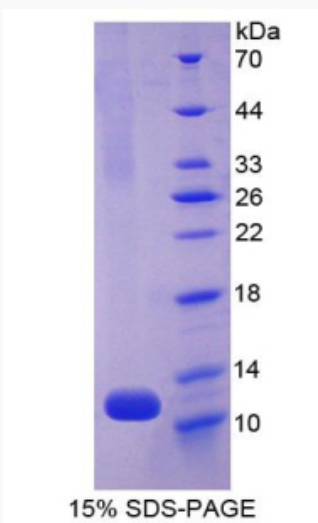
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UniProt ID

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