

Recombinant Human NPPA protein, His & GST-tagged

Cat. No. NPPA-2689H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human NPPA aa. (Ala25~Arg123) fused with N-terminal His & GST tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Ala25~Arg123
Description	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. This gene is located adjacent to another member of the natriuretic family of peptides on chromosome 1.
Form	Freeze-dried powder
Molecular Mass	41kDa as determined by SDS-PAGE reducing conditions.
Endotoxin	<1.0EU per 1g (determined by the LAL method)
Purity	>95%

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

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

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Characteristic	The isoelectric point is 5.7.
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°C 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°C for one month. Aliquot and store at -80°C for 12 months.
Concentration	200µg/mL
Storage buffer	10mM PBS, pH7.4, containing 1mM DTT, 5% trehalose, 0.01% sarcosyl and Proclin300.
Reconstitution	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	NPPA natriuretic peptide A [Homo sapiens (human)]
Official Symbol	NPPA
Synonyms	ANF; ANP; CDD; CDP; PND; ATRFB6; ATRST2; CDD-ANF; atriopeptin; cardiodilatin-related peptide; cardionatrin; natriuretic peptide precursor A variant 1; prepronatriodilatin; natriuretic peptides A
Gene ID	4878

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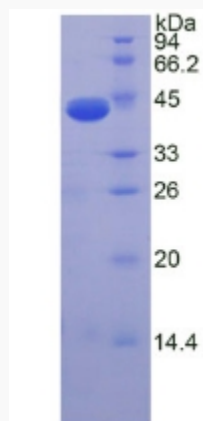
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mRNA Refseq NM_006172.3

Protein Refseq NP_006163.1

UniProt ID P01160

SDS-PAGE



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