

# Recombinant human Napsin A protein

Catalog Number: ATGP2916

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

64-420aa

### UniProt No.

O96009

### NCBI Accession No.

NP\_004842

### Alternative Names

Aspartyl protease 4, Asparyl protease 4, Napsin-A, KAP, Kdap, NAP1, NAPA, SNAPA, ASP4

## PRODUCT SPECIFICATION

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### Molecular Weight

40.9 kDa (380aa)

### Concentration

0.25mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol

### Purity

> 90% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE, Denatured

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

NAPSA belongs to the peptidase A1 family and may be involved in processing of pneumocyte surfactant precursors. The activation peptides of aspartic proteinases plays role as inhibitors of the active site. These peptide segments, or pro-parts, are deemed important for correct folding, targeting, and control of the activation of aspartic proteinase zymogens. The pronapsin A gene is expressed predominantly in lung and kidney. Its translation product is predicted to be a fully functional, glycosylated aspartic proteinase precursor containing an RGD motif and an additional 18 residues at its C-terminus. Recombinant human NAPSA protein, fused to His-tag

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at N-terminus, was expressed in E. coli.

## Amino acid Sequence

MGSSHHHHHH SSSLVPRGSH MGSKPIFVPL SNYRDVQYFG EIGLGTTPPQN FTVAFTDGSS NLWVPSRRCH FFSVPCWLHH  
RFDPKASSSF QANGTKFAIQ YGTGRVDGIL SEDKLTIGGI KGASVIFGEA LWEPSLVFAF AHFDGILGLG FPILSVEGVR  
PPMDVLVEQG LLDKPVFSFY LNRDPEEPDG GELVLGGSDP AHYIPPLTFV PVTVPAYWQI HMERVKVGP LTLCAKGCAA  
ILDGTSLIT GPTEEIRALH AAIGGIPLLA GEYIILCSEI PKLPAVSFLL GGWVFNLTAH DYVIQTTRNG VRLCLSGFQA  
LDVPPPAGPF WILGDVFLGT YVAVFDRGDM KSSARVGLAR ARTRGADLGW GETAQAQFPG

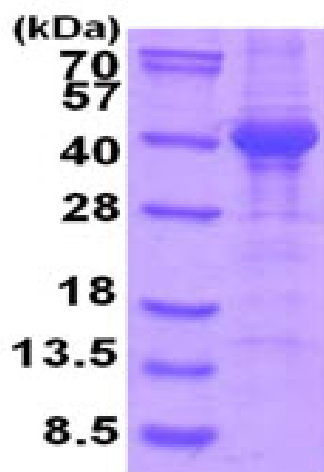
## General References

Aulakh KS., et al. (2013) Arch. Pathol. Lab. Med. 137 (8), 1094-1098

Chernock RD, et al. (2013) Am. J. Surg. Pathol. 37 (8), 1215-1222

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)