

Recombinant human Napsin A protein

Catalog Number: ATGP3352

PRODUCT INFORMATION

Expression system

E.coli

Domain

64-420aa

UniProt No.

O96009

NCBI Accession No.

NP_004842

Alternative Names

Napsin-A, KAP, Kdap, NAP1, NAPA, SNAPA

PRODUCT SPECIFICATION

Molecular Weight

40.9 kDa (380aa) confirmed by MALDI-TOF

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

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

Description

NAPSA, also known as Napsin-A, 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 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, fused to His-tag at N-terminus, was expressed in E. coli and purified by

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conventional chromatography.

Amino acid Sequence

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

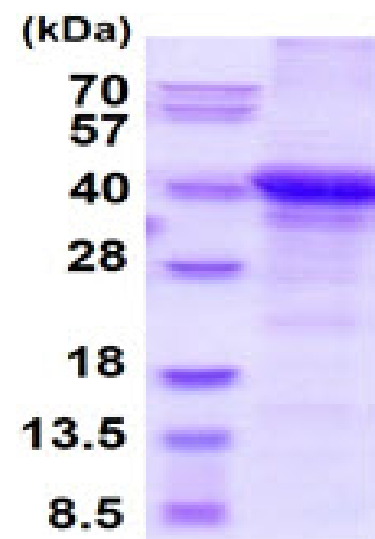
General References

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

Chernock RD, et al. (2013) Am. J. Surg. Pathol. 37(8):1215-22

DATA

SDS-PAGE



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

15% SDS-PAGE (3ug)