Recombinant human Napsin A protein

Catalog Number: ATGP2916

PRODUCT INFORMATION

Expression system
E.coli

Domain
64-420aa

UniProt No.
O96009

NCBI Accession No.
NP_004842

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

PRODUCT SPECIFICATION

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

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

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

Amino acid Sequence

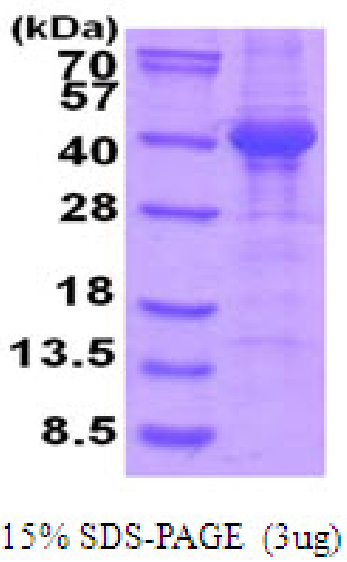
MGSSHHHHHH SSGLVPRGSH MGSKPIFVPL SNYRDVQYFG EIGLGTPPQN FTVAFDTGSS NLWVPSRRCH FFSVPCWLHH RFDPKASSSF QANGTKFAIQ YGTGRVDGIL SEDKLTIGGI KGASVIFGEA LWEPSLVFAF AHFDGILGLG FPILSVEGVR PPMDVLVEQG LLDKPVFSFY LNRDPEEPDG GELVLGGSDP AHYIPPLTFV PVTVPAYWQI HMERVKVGPG LTLCAKGCAA ILDTGTSLIT GPTEEIRALH AAIGGIPLLA GEYIILCSEI PKLPAVSFLL GGVWFNLTAH 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



15% SDS-PAGE (3ug)

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