
Product Data Sheet

Product Name: NAPSA Human
 Cat. No.: GP21975
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Napsin A Aspartic Peptidase; NAP1; NAPA; Kidney-Derived Aspartic Protease-Like Protein; Aspartyl Protease 4; TA01/TA02; Napsin-1; SNAPA; Asp 4; ASP4; CTB-191K22.6; EC 3.4.23.15; Pronapsin A; EC 3.4.23.5; EC 3.4.23.3; EC3.4.23.-; EC 3.4.23; Napsin-A; KDAP; KAP; Napsin-A.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSKPIFVPL SNYRDVQYFG EIGLGTPPQN FTVAFDTGSS NLWVPSRRCHFFSVPCWLHH RFDPKASSSF QANGTKFAIQ YGTGRVDGIL SEDKLTIGGI KGASVIFGEA LWEPSLVFAFAHFDGILGLG FPILSVEGVR PPMDVLVEQG LLDKPVFSFYLNRPDPEPDG GELVLGGSDP AHYIPPLTFV PVTVPAYWQI HMERVKVGPGLTLCAGCAA ILDTGTSLIT GPTEEIRALH AAIGGIPLLA GEYIILCSEI PKLPAVSFLL GGWVFNLTADHYVIQTTRNG VRLCLSGFQA LDVPPPAGPF WILGDVFLGT YVAVFDRGDM KSSARVGLARARTRGADLGW GETAQAQFPG.		
Formulation	NAPSA protein solution (0.25mg/ml) containing 20mM Tris-HCl (pH8.0) and 10% glycerol.		

Introduction

Napsin A Aspartic Peptidase, also known as NAPSA is a member of the peptidase A1 family. NAPSA is involved in the processing of pneumocyte surfactant precursors. Furthermore the activation peptides of aspartic proteinase take part as inhibitors of the active site. These peptide segments/pro-parts are considered essential for correct folding, targeting, as well as control of the activation of aspartic proteinase zymogens. The pronapsin A gene is expressed mostly in lung and kidney. In addition, NAPSA translation product is expected to be a fully functional, glycosylated aspartic proteinase precursor which contains an RGD motif as well as an additional 18 residues at its C-

Caution: Product has not been fully validated for medical applications. For research use only.

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terminus.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

NAPSA Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 380 amino acids (64-420 a.a) and having a molecular mass of 40.9kDa. NAPSA is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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