# Napsin-A (NAPSA) ELISA Kit for Human

## PRODUCT OVERVIEW

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| **Product Name** | Napsin-A (NAPSA), ELISA Kit |
| **Full Product Name** | Human Napsin-A ELISA Kit |
| **Product Gene Name** | NAPSA elisa kit |
| **Product Synonym Names** | Aspartyl protease 4; Napsin-1; TA01/TA02; ASP4; NAP1; NAPA; NAPSA_HUMAN |
| **Species Reactivity** | Human |
| **Assay Type** | Sandwich |
| **Detection Range** | 0.156-10ng/mL |
| **Sensitivity** | 0.053ng/mL |
| **Specificity** | Natural and recombinant human Napsin-A |
| **Molecular Weight** | 45,387 Da |
| **OMIM** | 605631 |
| **3D Structure** | ModBase 3D Structure for O96009 |
| **Related Product Information for NAPSA elisa kit** | MBS2909727 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Napsin-A (NAPSA) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing NAPSA. The ELISA analytical biochemical technique of the MBS2909727 kit is based on NAPSA antibody-NAPSA antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect NAPSA antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, NAPSA. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%). |
| **Other Notes** | Small volumes of NAPSA elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NAPSA. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 4758754 |
| **NCBI GeneID** | 9476 |
| **NCBI Accession #** | NP_004842.1 |
| **UniProt Primary Accession #** | O96009 |
| **UniProt Secondary Accession #** | Q8WWD9 |
| **UniProt Related Accession #** | O96009 |
| **GenBank Nucleotide #** | NM_004851.2 |
| **NCBI Official Full Name** | napsin-A preproprotein |
| **NCBI Official Synonym Full Names** | napsin A aspartic peptidase |
| **NCBI Official Symbol** | NAPSA |

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| **NCBI Official Synonym Symbols** | KAP; Kdap; NAP1; NAPA; SNAPA |
| **UniProt Protein Name** | Napsin-A |
| **UniProt Synonym Protein Names** | Aspartyl protease 4; ASP4; Asp 4; Napsin-1; TA01/TA02 |
| **Protein Family** | Napsin |
| **UniProt Gene Name** | NAPSA |
| **UniProt Synonym Gene Names** | NAP1; NAPA; ASP4; Asp 4 |
| **UniProt Entry Name** | NAPSA_HUMAN |
| **NCBI Protein Information** | napsin-A |
| **UniProt Comments for NAPSA** | NAPSA: May be involved in processing of pneumocyte surfactant precursors. Belongs to the peptidase A1 family.<br><br>Protein type: EC 3.4.23.-; Protease; Secreted; Secreted, signal peptide<br><br>Chromosomal Location of Human Ortholog: 19q13.33<br><br>Cellular Component: extracellular space; lysosome<br><br>Molecular Function: aspartic-type endopeptidase activity; endopeptidase activity; peptidase activity<br><br>Biological Process: cellular protein metabolic process; membrane protein proteolysis; protein catabolic process; surfactant homeostasis |
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