Recombinant human SLPI protein

Catalog Number: ATGP0599

PRODUCT INFORMATION

Expression system
E.coli

Domain
26-132aa

UniProt No.
P03973

NCBI Accession No.
NP_003055.1

Alternative Names
secretory leukocyte peptidase inhibitor, Antileukoproteinase, ALK1, ALP, BLPI, HuSI, HuSI-I, MPI, WAP4, WFDC4, secretory leukocyte peptidase inhibitor, ALK 1, Antileukoproteinase 1, Antileukoproteinase1, HuSI 1, HuSI I, Protease inhibitor WAP4, Secretory leukocyte protease inhibitor, Seminal proteinase inhibitor, WAP four disulfide core domain protein 4, WAP 4, WFDC 4

PRODUCT SPECIFICATION

Molecular Weight
14 kDa (128aa) confirmed by MALDI-TOF

Concentration
0.25mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 2mM DTT, 100mM NaCl

Purity
> 80% 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
SLPI is a secreted inhibitor which protects epithelial tissues from serine proteases. It is found in various secretions including seminal plasma, cervical mucus, and bronchial secretions, and has affinity for trypsin, leukocyte elastase, and cathepsin G. Its inhibitory effect contributes to the immune response by protecting

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epithelial surfaces from attack by endogenous proteolytic enzymes; the protein is also thought to have broad-spectrum anti-biotic activity. Recombinant human SLPI, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.

Amino acid Sequence

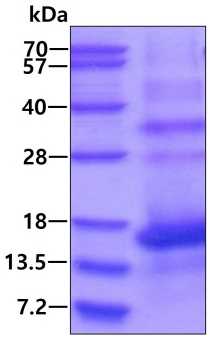
<MGSSHHHHHH SSGLVPRGSH M>SGKSFKAGV CPPKKSAQCL RYKKPECQSD WQCPGKKRCC PDTCGIKCLD PVDTPNPTRR KPGKCPVTYG QCLMLNPPNF CEMDGQCKRD LKCCMGMCGK SCVSPVKA

General References

Rasool N., et al. (2010) Clin Cancer Res. 16(2):600-9
King AE., et al. (2009) Hum Reprod. 24(3):679-86.

DATA

SDS-PAGE



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