

SLPI, 26-132aa, Human, His tag, E.coli

Cat.NO.: TP03962

3th Edition

Synonyms:Antileukoproteinase, ALK1, ALP, BLPI, HUSI, HUSI-I, MPI, WAP4, WFDC4, secretory leukocyte peptidase inhibitor, ALK 1, Antileukoproteinase 1, Antileukoproteinase1, HUSI 1,

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 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.

Form:Liquid. 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol, 2mM DTT, 100mM NaCl

Molecular Weight:14.0kDa (128aa) confirmed by MALDI-TOF

Sequences:

MGSSHHHHHSSGLVPRGSHMSGKSFKAGVCPKSAQCLRYKKPECQSDWQCPGKKRCCPDTCGIKCLDPVD
TPNPTRRKPGKCPVTYQGCLMLNPPNFCMDGQCKRDLKCCMGKSCVSPVKA

Purity:> 95% by HPLC

Concentration:0.5 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.