
Product Data Sheet

Product Name: SLPI Human
 Cat. No.: GP24609
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Antileukoproteinase; ALK1; ALP; BLPI; HUSI; HUSI-I; MPI; WAP4; WFDC4; WAP four-disulfide core domain protein 4; Protease inhibitor WAP4; Seminal proteinase inhibitor; Mucus proteinase inhibitor.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MSGKSFKAGV CPPKKS AQCL RYKKPECQSD WQCPGKKRCC P DTCGIKCLD PVDTPNPTRR KPGKCPVTYG QCLMLNPPNF CEMDGQCKRD LKCCMG MCGK SCVSPVKA.		
Formulation	SLPI Human solution containing 20mM Tris-HCl pH-8.0, 2mM DTT, 0.1M NaCl & 20% glycerol.		

Introduction

SLPI is a secreted inhibitor which guards epithelial tissues from serine proteases. SLPI is localized in various secretions including seminal plasma, cervical mucus, and bronchial secretions, and has affinity for trypsin, leukocyte elastase, and cathepsin G. SLPI inhibitory effect contributes to the immune response by protecting epithelial surfaces from attack by endogenous proteolytic enzymes. SLPI protein has broad-spectrum anti-biotic activity. SLPI is an acid-stable proteinase inhibitor with strong affinities for trypsin, chymotrypsin, elastase, and cathepsin G. SLPI prevents elastase-mediated damage to oral and mucosal tissues.

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

SLPI Recombinant E.coli produced in E.Coli is a single, non-glycosylated polypeptide

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

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chain containing 128 amino acids (26-132 a.a.) and having a molecular mass of 14 kDa. The SLPI is fused to a 21 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques.

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