Datasheet for ABIN7197864

SLPI Protein (AA 1-132) (His tag)

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Overview

Quantity:	100 µg
Target:	SLPI
Protein Characteristics:	AA 1-132
Origin:	Human
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This SLPI protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human SLPI Protein (aa 1-132, His Tag)(Active)
Sequence:	Met 1-Ala132
Characteristics:	A DNA sequence encoding the human SLPI (P03973)(Met1-Ala132) was expressed, with a C-terminal polyhistidine tag.
Purity:	> 90 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	Measured by its ability to inhibit trypsin cleavage of a fluorogenic peptide substrate, Mca-RPKPVE-Nval-WRK (Dnp)-NH2 (Catalog # ES002).The IC50 value is <1 Nm.

Target Details

Target:	SLPI
Alternative Name:	SLPI (SLPI Products)
Background:	Background: Secretory leukoprotease inhibitor (SLPI), also called antileukoprotease (ALP), is a 12- kDa, nonglycosylated serine protease inhibitor present in mucous secretions. It is thought to play a role in protecting the mucosae from injury associated with inflammation. SLPI is locally produced by serous cells, including bronchial submucosal glands. Elafin and SLPI are members of larger families of proteins secreted predominantly at mucosal sites, and have been shown to be modulated in multiple pathological conditions. Elafin and SLPI are structurally related in that both have a fold with a four-disulfide core or whey acidic protein (WAP) domain responsible for inhibiting proteases. SLPI is a prominent innate immune protein of the respiratory tract, possessing serine protease inhibitor activity, antibacterial activity, and anti-inflammatory/immunomodulatory activity. Synonym: ALK1,ALP,BLPI,HUSI,HUSI-I,MPI,WAP4,WFDC4
Molecular Weight:	13.1 kDa
UniProt:	P03973

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile 20 mM Tris, 500 mM NaCl, 10 % glycerol, pH 7.4
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.