

## SLPI Protein, Human, Recombinant (hFc)

### General Information

Synonyms:	WFDC4;HUSI;SLPI;WAP4;MPI;BLPI;ALK1;HUSI-1;ALP
Protein Construction:	Ser26-Ala132
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P03973
Molecular Weight:	38.5 kDa (predicted). Due to glycosylation, the protein migrates to 40-50 kDa based on Tris-Bis PAGE result.

### QC Testing

Biological Activity:	Immobilized Human SLPI, hFc Tag at 2µg/ml (100µl/Well) on the plate. Dose response curve for Biotinylated Anti-SLPI Antibody, hFc Tag with the EC50 of 0.47µg/ml determined by ELISA.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Supplied as 0.22 µm filtered solution in PBS, 350 mM NaCl (pH 7.4).

### Preparation and Storage

#### Stability & Storage:

It is recommended to store the product under sterile conditions at -70°C or lower. Samples are stable for up to 12 months at -80°C. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

Proteins are shipped with blue ice.

### Protein Background

Elafin and SLPI (secretory leucocyte protease inhibitor) have multiple important roles both in normal homeostasis and at sites of inflammation. These include antiprotease and antimicrobial activity as well as modulation of the response to LPS (lipopolysaccharide) stimulation. 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.

#### Reference

Williams SE, et al. SLPI and elafin: one glove, many fingers. Clin Sci (Lond). 2006 Jan;110(1):21-35. doi: 10.1042/CS20050115. PMID: 16336202.

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