

Rev02  
 Update: Aug,08,2025

**DATASHEET**

# SLPI hFc Chimera, Human

Cat. No.: Z05847

## Product Introduction

<b>Species</b>	Human
<b>Protein Construction</b>	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="background-color: #0056b3; color: white; padding: 5px; text-align: center;">           SLPI (Ser26-Ala132)_x000D_ Accession # P03973         </div> <div style="background-color: #76923c; color: white; padding: 5px; text-align: center;">           hFc         </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 5px;"> <span>N-term</span> <span>C-term</span> </div>
<b>Purity</b>	> 95% as determined by BisTris PAGE > 95% as determined by HPLC
<b>Endotoxin Level</b>	Less than 1EU per µg by the LAL method.
<b>Biological Activity</b>	Measured by its binding ability in a functional ELISA. Immobilized SLPI hFc Chimera, Human at 5µg/ml (100µl/Well) on the plate can bind Biotinylated AntiSLPI Antibody, hFc Tag. Test result was comparable to standard batch.
<b>Expression System</b>	HEK293
<b>Theoretical Molecular Weight</b>	38.5 kDa
<b>Apparent Molecular Weight</b>	Due to glycosylation, the protein migrates to 40-50 kDa based on Bis-Tris PAGE result.
<b>Formulation</b>	Lyophilized from 0.22 µm filtered solution in PBS, 350mM NaCl (pH 7.4).
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage &amp; Stability</b>	Upon receiving, the product remains stable up to 6 months at -20 °C or below. Upon reconstitution, the product should be stable for 3 months at -80 °C. Avoid repeated freeze-thaw cycles.

## Background

**Target Background :** Elafin and SLPI (secretory leucocyte protease inhibitor) have multiple important roles both in normal homoeostasis 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.

**Synonyms :** ALP; BLPI; HUSI-1; MPI; WAP4; WFDC4; ALK1; HUSI; SLPI

**For research use only. Not intended for human or animal clinical trials, therapeutic or diagnostic use.**

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