

SLPI Protein, Mouse, Recombinant (hFc)

General Information

Synonyms:	WAP4;BLPI;SLPI;HUSI-1;HUSI;MPI;ALP;WFDC4;ALK1
Protein Construction:	Ser26-Met131
Species:	Mouse
Expression Host:	HEK293 Cells
Accession:	P97430
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:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/ μ g of the protein as determined by the LAL method.
Formulation:	Lyophilized from 0.22 μ m filtered solution in PBS, 350mM NaCl (pH 7.4). Normally 8% mannitol is added as protectant before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μ g/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

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:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry 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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