

Recombinant Human SLPI Protein (aa 1-132, His Tag)



Catalog Number: PKSH031665

Note: Centrifuge before opening to ensure complete recovery of vial contents.

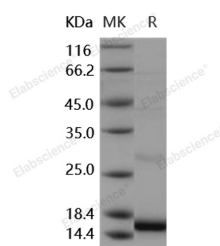
Description

Synonyms	ALK1;ALP;BLPI;HUSI;HUSI-I;MPI;WAP4;WFDC4
Species	Human
Expression Host	Baculovirus-Insect Cells
Sequence	Met 1-Ala132
Accession	P03973
Calculated Molecular Weight	13.1 kDa
Observed molecular weight	15 kDa
Tag	C-His
Bioactivity	Measured by its ability to inhibit trypsin cleavage of a fluorogenic peptide substrate, Mca-RPKPVE-Nval-WRK (Dnp)-NH ₂ (Catalog # ES002). The IC ₅₀ value is < 1 Nm.

Properties

Purity	> 90 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Storage	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.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile 20mM Tris, 500mM NaCl, 10% glycerol, pH 7.4 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 90 % as determined by reducing SDS-PAGE.

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-

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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.

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