SLPI Protein, Human (HEK293, Fc)

Cat. No.:	HY-P78548
Synonyms:	ALP; BLPI; HUSI-1; MPI; WAP4; WFDC4; ALK1; HUSI; SLPI
Species:	Human
Source:	HEK293
Accession:	P03973 (S26-A132)
Gene ID:	6590
Molecular Weight:	40-50 kDa

PROPERTIES

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 EC_{50} of 0.47μg/ml determined by ELISA.
Appearance	Solution.
Formulation	Supplied as a 0.22 μm filtered solution of PBS, 350 mM NaCl, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	SLPI, an acid-stable proteinase inhibitor, exhibits robust affinities for trypsin, chymotrypsin, elastase, and cathepsin G, as demonstrated in various studies. It plays a crucial role in modulating inflammatory and immune responses following bacterial infection, as well as infection by the intracellular parasite L.major. Additionally, SLPI contributes to down-regulating responses to bacterial lipopolysaccharide (LPS) (By similarity) and is involved in regulating the activation of NF-kappa-B, thereby influencing inflammatory responses. Notably, SLPI exhibits antimicrobial activity against mycobacteria but not against salmonella, contributing to normal resistance against infection by M.tuberculosis. It is also essential for normal resistance to infection by L.major and plays a critical role in wound healing, likely by preventing tissue damage through the regulation of protease activity (By similarity). Furthermore, in collaboration with ELANE, SLPI is required for the normal differentiation and proliferation of bone marrow myeloid cells, and it interacts with GRN, protecting progranulin from proteolysis.

Caution: Product has not been fully validated for medical applications. For research use only.

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