

Recombinant Human Linker For Activation Of T Cells, His-tagged

Cat. No. LAT-6882H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human LAT protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques. MW: 24.4 kDa.
Species	Human
Source	E.coli
ProteinLength	28-233aa
Description	LAT is an integral membrane protein which is phosphorylated by ZAP-70/Syk protein tyrosine kinases following activation of the T-cell antigen receptor (TCR) signal transduction pathway. LAT is expressed in T lymphocytes in interstitial spaces, platelets and megakaryocytes. LAT is not expressed in B cells, macrophages, plasma cells, monocytes, epithelial histiocytes and dendritic cells.
Form	Liquid. In 20mM Tris-HCl buffer(pH 8.0) containing 1mM DTT.
Molecular Mass	24.4 kDa (227aa), confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher).
AA Sequence	MGSSHHHHHH SSGLVPRGSH MHCHRLPGSY DSTSSDSLYP RGIQFKRPHT VAPWPPAYPP VTSYPPLSQP DLLPIRSPQ PLGGSHRTPS SRRDSGDGANS VASYNEEPA CEDADEDEDD YHNPGYLVVL PDSTPATSTA APSAPALSTP GIRDSAFSME SIDDYVNVPE SGESAEASLD GSREYVNVSQ ELHPGAAKTE

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

	PAALSSQEAE EEEEEGAPDY ENLQELN
Purity	>95% by SDS - PAGE
Applications	SDS-PAGE
Storage	Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
Concentration	1 mg/ml (determined by Bradford)

GENE INFORMATION

Gene Name	LAT linker for activation of T cells [Homo sapiens]
Official Symbol	LAT
Synonyms	LAT; linker for activation of T cells; linker for activation of T-cells family member 1; LAT1; transmembrane adaptor; p36-38; 36 kDa phospho-tyrosine adapter protein; 36 kDa phospho-tyrosine adaptor protein; linker for activation of T cells, transmembrane adaptor; pp36;
Gene ID	27040
mRNA Refseq	NM_001014987
Protein Refseq	NP_001014987
MIM	602354
UniProt ID	O43561

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Chromosome Location	16q13
Pathway	Adaptive Immune System, organism-specific biosystem; Fc epsilon RI signaling pathway, organism-specific biosystem; Fc epsilon RI signaling pathway, conserved biosystem; Fc gamma R-mediated phagocytosis, organism-specific biosystem; Fc gamma R-mediated phagocytosis, conserved biosystem; Fc-epsilon receptor I signaling in mast cells, organism-specific biosystem; GPVI-mediated activation cascade, organism-specific biosystem;
Function	SH3/SH2 adaptor activity; protein binding; protein kinase binding;

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA