

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

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

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | 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.                                                                                                                                                                                                                                  |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>ProteinLength</b>    | 28-233aa                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Description</b>      | 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. |
| <b>Form</b>             | Liquid. In 20mM Tris-HCl buffer(pH 8.0) containing 1mM DTT.                                                                                                                                                                                                                                                                                                                                          |
| <b>Molecular Mass</b>   | 24.4 kDa (227aa), confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher).                                                                                                                                                                                                                                                                                                          |
| <b>AA Sequence</b>      | MGSSHHHHHH SSGLVPRGSH MHCHRLPGSY DSTSSDSLYP RGIQFKRPHT<br>VAPWPPAYPP VTSYPPLSQP DLLPIRSPQ PLGGSHRTPS SRRDSGDGANS<br>VASYNEEPA CEDADEDEDD YHNPGYLVVL PDSTPATSTA APSAPALSTP<br>GIRDSAFSME SIDDYVNVPE SGESAEASLD GSREYVNVSQ ELHPGAAKTE                                                                                                                                                                  |

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|                      |                                                                                                                                                      |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
|                      | PAALSSQEAE EEEEEGAPDY ENLQELN                                                                                                                        |
| <b>Purity</b>        | >95% by SDS - PAGE                                                                                                                                   |
| <b>Applications</b>  | SDS-PAGE                                                                                                                                             |
| <b>Storage</b>       | 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. |
| <b>Concentration</b> | 1 mg/ml (determined by Bradford)                                                                                                                     |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                                |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | <a href="#">LAT linker for activation of T cells [ Homo sapiens ]</a>                                                                                                                                                                                                          |
| <b>Official Symbol</b> | LAT                                                                                                                                                                                                                                                                            |
| <b>Synonyms</b>        | 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; |
| <b>Gene ID</b>         | <a href="#">27040</a>                                                                                                                                                                                                                                                          |
| <b>mRNA Refseq</b>     | <a href="#">NM_001014987</a>                                                                                                                                                                                                                                                   |
| <b>Protein Refseq</b>  | <a href="#">NP_001014987</a>                                                                                                                                                                                                                                                   |
| <b>MIM</b>             | <a href="#">602354</a>                                                                                                                                                                                                                                                         |
| <b>UniProt ID</b>      | <a href="#">O43561</a>                                                                                                                                                                                                                                                         |

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|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Chromosome Location</b> | 16q13                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Pathway</b>             | 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; |
| <b>Function</b>            | SH3/SH2 adaptor activity; protein binding; protein kinase binding;                                                                                                                                                                                                                                                                                                                                                                        |

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