

## LAT Human

**Description:** LAT Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 227 amino acids (28-233) and having a molecular mass of 24.4 kDa (Molecular weight on SDS-PAGE will appear higher). LAT is fused to a 21 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

**Catalog #:** PRPS-955

For research use only.

**Synonyms:** Linker for activation of T cells, LAT1, 36 kDa phospho-tyrosine adapter protein, p36-38, pp36, linker for activation of T cells transmembrane adaptor, linker for activation of T-cells family member 1.

**Source:** E.coli.

**Physical Appearance:** Sterile Filtered colorless solution.

**Amino Acid Sequence:** MGSSHHHHHH SSGLVPRGSH MHCHRLPGSY DSTSSDSLYP  
RGIQFKRPHT VAPWPPAYPP VTSYPPLSQP DLLPIRSPQ PLGGSHRTPS SRRDSGDANS  
VASYENEEPA CEDADEDEDD YHNPGLVVL PDSTPATSTA APSAPALSTP GIRDSEAFSME  
SIDDYVNVPE SGESAEASLD GSREYVNVSQ ELHPGAAKTE PAALSSQAE EEEEEGAPDY  
ENLQELN

**Purity:** Greater than 95% as determined by SDS-PAGE.

**Formulation:**

The LAT solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0) and 1mM DTT.

**Stability:**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Introduction:**

LAT is a vital membrane protein that is phosphorylated by ZAP-70/Syk protein tyrosine kinases succeeding activation of the T-cell antigen receptor (TCR) signal transduction pathway. LAT is expressed in T lymphocytes in interstitial spaces, platelets and megakaryocytes.

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