
Product Data Sheet

Product Name: LAT Human
 Cat. No.: GP23800
 Batch No.: 1

Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
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.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MHCHRLPGSY DSTSSDSLYP RGIQFKRPHT VAPWPPAYPP VTSYPPLSQP DLLPIRSPQ PLGGSHRTPS SRRDSDGANS VASYENEEPA CEDADEDEDD YHNPGLVVL PDSTPATSTA APSAPALSTP GIRDSAFSME SIDDYVNVPE SGESAEASLD GSREYVNVSQ ELHPGAAKTE PAALSSQEAE EVEEEGAPDY ENLQELN		
Formulation	The LAT solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0) and 1mM DTT.		

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.

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.

Background

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-

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

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tag at N-terminus & purified by proprietary chromatographic techniques.

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