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Datasheet for ABIN3082902 **LAT Protein (AA 28-262) (His tag)** 

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## Overview

Quantity:	1 mg
Target:	LAT
Protein Characteristics:	AA 28-262
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This LAT protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA, Crystallization (Crys)

### **Product Details**

Sequence:	HCHRLPGSYD STSSDSLYPR GIQFKRPHTV APWPPAYPPV TSYPPLSQPD LLPIPRSPQP

LGGSHRTPSS RRDSDGANSV ASYENEGASG IRGAQAGWGV WGPSWTRLTP VSLPPEPACE DADEDEDDYH NPGYLVVLPD STPATSTAAP SAPALSTPGI RDSAFSMESI DDYVNVPESG ESAEASLDGS REYVNVSQEL HPGAAKTEPA ALSSQEAEEV EEEGAPDYEN LQELN

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.

#### Characteristics:

- Made in Germany from design to production by highly experienced protein experts.
- Human LAT Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made to order protein and will be made for the first time for your order. Our experts in the lab will ensure that you receive a correctly folded protein.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receival of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered. The concentration of our recombinant proteins is measured using the absorbance at 280nm. The protein's absorbance will be measured in several dilutions and is measured against its

The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

# Purification:

Two step purification of proteins expressed in baculovirus infected SF9 insect cells:

- 1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.
- 2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.

Purity:

>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Sterility:

0.22 µm filtered

Endotoxin Level:

Protein is endotoxin free.

specific reference buffer.

Grade:

Crystallography grade

# Target Details

Target:	LAT
Alternative Name:	LAT (LAT Products)
Background:	Required for TCR (T-cell antigen receptor)- and pre-TCR-mediated signaling, both in mature T-
	cells and during their development. Involved in FCGR3 (low affinity immunoglobulin gamma Fc
	region receptor III)-mediated signaling in natural killer cells and FCER1 (high affinity

immunoglobulin epsilon receptor)-mediated signaling in mast cells. Couples activation of these
receptors and their associated kinases with distal intracellular events such as mobilization of
intracellular calcium stores, PKC activation, MAPK activation or cytoskeletal reorganization
through the recruitment of PLCG1, GRB2, GRAP2, and other signaling molecules.
{ECO:0000269 PubMed:10072481}.
26.0 kDa Including tag.
043561
TCR Signaling, Fc-epsilon Receptor Signaling Pathway
In addition to the applications listed above we expect the protein to work for functional studies
as well. As the protein has not been tested for functional studies yet we cannot offer a
guarantee though.
In cases in which it is highly likely that the recombinant protein with the default tag will be
insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to
increase solubility. We will discuss all possible options with you in detail to assure that you
receive your protein of interest.
For Research Use only
Liquid
100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
Avoid repeated freeze-thaw cycles.
-80 °C
Store at -80°C.
Unlimited (if stored properly)