

# Recombinant Human Leukocyte-associated Immunoglobulin-like Receptor 1, His-tagged

**Cat. No.** LAIR1-348H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant extracellular domain of LAIR-1( 22-125aa) was overexpressed in E.coli, and purified by using conventional chromatography techniques (105 aa, 11.7 kDa).                                                                                                                                                                                                                   |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Protein Length</b>   | 22-125 a.a.                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Description</b>      | LAIR-1 is a glycoprotein(~32kDa) expressed on the surface of the majority of human peripheral blood mononuclear leukocytes including T cells , B cells, NK cells, macrophages and dendritic cells. LAIR-1 functions as an inhibitory receptor in NK cells, T cells and B cells. LAIR-1 consists of a leader sequence, extracellular domain, transmembrane domain, cytoplasmic region. |
| <b>Formulation</b>      | Liquid. In 20 mM Tris-HCl buffer (pH 7.5) containing 50 mM NaCl, 1 mM EDTA.                                                                                                                                                                                                                                                                                                           |
| <b>Molecular Weight</b> | 11.7 kDa (105 aa).                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Purity</b>           | > 95% by SDS – PAGE.                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Concentration</b>    | 1 mg/ml (determined by Bradford assay).                                                                                                                                                                                                                                                                                                                                               |
| <b>Sequence</b>         | MQEEDLPRPS ISAEPGTVIP LGSHVTFVCR GPVGVQTFRL ERESRSTYND                                                                                                                                                                                                                                                                                                                                |

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TEDVSQASPS ESEARFRIDS VSEGNAGPYR CIYYKPPKWS EQSDYLELLV  
KETSG

**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.

**GENE INFORMATION**
**Gene Name**

[LAIR1](#)

**Synonyms**

LAIR1; leukocyte-associated immunoglobulin-like receptor 1; CD305; LAIR-1; hLAIR1; CD305 antigen; leukocyte-associated Ig-like receptor 1; LAIR1 leukocyte-associated immunoglobulin-like receptor 1.

**Gene ID**

[3903](#)

**mRNA Refseq**

[NM\\_002287.3](#)

**Protein Refseq**

[NP\\_002278.1](#)

**MIM**

[602992](#)

**UniProt ID**

[Q6GTX8](#)

**Chromosome  
Location**

19q13.4

**Pathway**

SNARE interactions in vesicular transport; Membrane Trafficking.

**Function**

protein binding; receptor activity.

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