# **PRODUCT INFORMATION**

**Expression system** E.coli

**Domain** 22-125aa

**UniProt No.** Q6GTX8

NCBI Accession No. NP\_002278

# **Alternative Names**

Leukocyte-associated immunoglobulin-like receptor 1 isoform a, Lair1, LAIR-1 (Extracellular domain), LAIR-1, mLAIR1, CD305 antigen, Leukocyte-associated immunoglobulin-like receptor 1, Leukocyte-associated immunoglobulin-like receptor 1 isoform a 5133400011Rik, CD305, D7Bwg0421e, LAIR 1, LAIR1 protein, Leukocyte associated Ig like receptor 1, Leukocyte associated immunoglobulin like receptor 1,

# **PRODUCT SPECIFICATION**

# **Molecular Weight**

11.7 kDa (105aa) confirmed by MALDI-TOF

**Concentration** 1mg/ml (determined by Bradford assay)

# Formulation

Liquid in. 20mM Tris-HCl buffer (pH 7.5) containing 50mM NaCl, 1mM EDTA

Purity

> 95% by SDS-PAGE

Tag Non-Tagged

Application SDS-PAGE

# **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

# BACKGROUND

# Description

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. The extracellular domain of LAIR-1 (22-125aa) was overexpressed in E. coli, and purified by using conventional chromatography techniques.

#### **Amino acid Sequence**

MQEEDLPRPS ISAEPGTVIP LGSHVTFVCR GPVGVQTFRL ERESRSTYND TEDVSQASPS ESEARFRIDS VSEGNAGPYR CIYYKPPKWS EQSDYLELLV KETSG

#### **General References**

Sathish JG., et al. (2001) J Immunol. 166(3):1763-70. Meyaard L., et al. (1999) J. Immunol. 162, 5800-4.

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25

15 10

# DATA

**SDS-PAGE** 

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

14% SDS-PAGE (3ug)