

# Recombinant human LILRB1/CD85j/ILT2 protein

Catalog Number: ATGP3965

## PRODUCT INFORMATION

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### Expression system

Baculovirus

### Domain

24-461aa

### UniProt No.

Q8NHL6

### NCBI Accession No.

NP\_006660.4

### Alternative Names

Leukocyte immunoglobulin-like receptor subfamily B member 1, LIR-1, LIR1, Leukocyte immunoglobulin-like receptor 1, CD85 antigen-like family member J, Immunoglobulin-like transcript 2, ILT-2, ILT2, Ig-like transcript 2, Monocyte/macrophage immunoglobulin-like receptor 7, MIR-7, MIR7, CD\_antigen, CD85j, CD85 antigen-like family member J, PIRB, PIR-B, leucocyte Ig-like receptor B1, leukocyte immunoglobulin-like receptor subfamily B member 1 soluble isoform, leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 1, monocyte/macrophage immunoglobulin-like receptor 7, myeloid inhibitory receptor 7

## PRODUCT SPECIFICATION

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### Molecular Weight

48.5kDa (446aa)

### Concentration

0.25mg/ml (determined by absorbance at 280nm)

### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

### Purity

> 95% by SDS-PAGE

### Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

### Biological Activity

Measured by the ability of the immobilized protein to support the adhesion of HSB2 human peripheral blood acute lymphoblastic leukemia cells. When cells are added to LILRB1 coated plates 5ug/ml. This effect is more to 50%.

### Tag

His-Tag

### Application

SDS-PAGE, Bioactivity

### Storage Condition

# Recombinant human LILRB1/CD85j/ILT2 protein

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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

LILRB1, also known as leukocyte immunoglobulin like receptor B1, is a member of the leukocyte immunoglobulinlike receptor (LIR) family. The receptor is expressed on immune cells where it binds to MHC class I molecules on antigen-presenting cells and transduces a negative signal that inhibits stimulation of an immune response. It is thought to control inflammatory responses and cytotoxicity to help focus the immune response and limit autoreactivity. It is also expressed on the surface of B cells and monocytes, as well as subsets of NK cells, memory/effector CD8+ T cells, gamma δ T cells, and monocyte-derived dendritic cells. It binds to MHC-I as well as non-classical MHC-I molecules and the MHC-I mimetic UL18 encoded by cytomegalovirus. Recombinant human LILRB1, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

### Amino acid Sequence

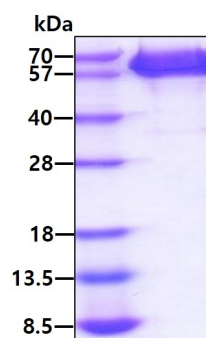
GHLPKPTLWA EPGSVITQGS PVTLRCQGGQ ETQEYRLYRE KKTAPWITRI PQELVKKGQF PIPSITWEHT GRYRCYYGSD  
TAGRSESSDP LELVVTGAYI KPTLSAQSP VVNSGGNVTI QCDSQVAFDG FILCKEGEDE HPQCLNSQPH ARGSSRAIFS  
VGPVSPSRRW WYRCYAYDSN SPYEWSLPSD LLELLVLGVS KKPSLSVQPG PIVAPEETLT LQCGSDAGYN RFVLYKDGER  
DFLQLAGAQP QAGLSQANFT LGPVRSYGG QYRCYGAHNL SSEWSAPSDP LDILIAGQFY DRVLSLVQPG PTVASGENVT  
LLCQSQGW MQ TFLLTKEGAA DDPWRLRSTY QSQKYQAEFP MGPV TSAHAG TYRCYGSQSS KPYLLTHPSD PLELVVSGPS  
GGPSSPTTGP TSTSGPEDQP LTPTGSDPQS GLGRHLGV<LE HHHHHH>

### General References

- Colonna, M. et al. (1997) J. Exp. Med. 186:1809-1818.
- Cosman, D. et al. (1997) Immunity 7:273-282.
- Ince, M.N. et al. (2004) Immunology 112:531-542.
- M Colonna et al. (1998) Immunology 7:3096-3100.

## DATA

### SDS-PAGE



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