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## Recombinant human LILRA3/CD85e protein

Catalog Number: ATGP4158

#### PRODUCT INFORMATION

## **Expression system**

**HEK293** 

#### **Domain**

24-439aa

#### UniProt No.

**08N6C8** 

#### **NCBI Accession No.**

NP 006856.3

#### **Alternative Names**

Leukocyte immunoglobulin-like receptor subfamily A member 3, leukocyte immunoglobulin-like receptor subfamily A member 3 isoform 1, CD85 antigen-like family member E, Immunoglobulin-like transcript 6, Leukocyte immunoglobulin-like receptor 4, Monocyte inhibitory receptor HM43/HM31, ILT-6, LIR-4, ILT6, LIR4, LILRA3, CD85e

## **PRODUCT SPECIFICATION**

## **Molecular Weight**

72.2kDa (658aa)

### **Concentration**

0.5mg/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)

#### Tag

hlgG-His-Tag

#### **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**

LILRA3, also known as CD85 antigen-like family member E (CD85e), immunoglobulin-like transcript 6 (ILT-6), and



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leukocyte immunoglobulin-like receptor 4 (LIR-4), acts as a soluble receptor for class I MHC antigens. It binds both classical and non-classical HLA class I molecules, albeit with reduced affinities compared to LILRB1 or LILRB2. Additionally, LILRA3 exhibits high affinity for monocyte surfaces, effectively suppressing LPS-induced TNF-alpha production. Unlike many of its family, LILRA3 lacks a transmembrane domain. The function of LILRA3 is currently unknown. However, it is highly homologous to other LILR genes and can bind human leukocyte antigen (HLA) class I. Therefore, if secreted, the LILRA3 might impair interactions of membrane-bound LILRs with their HLA ligands, thus modulating immune reactions and influencing susceptibility to disease. Recombinant human LILRA3/CD85e, fused to hIgG-His-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.

## **Amino acid Sequence**

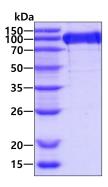
<DGS>GPLPKPT LWAEPGSVIT QGSPVTLRCQ GSLETQEYHL YREKKTALWI TRIPQELVKK GQFPILSITW EHAGRYCCIY GSHTAGLSES SDPLELVVTG AYSKPTLSAL PSPVVTSGGN VTIQCDSQVA FDGFILCKEG EDEHPQCLNS HSHARGSSRA IFSVGPVSPS RRWSYRCYGY DSRAPYVWSL PSDLLGLLVP GVSKKPSLSV QPGPVVAPGE KLTFQCGSDA GYDRFVLYKE WGRDFLQRPG RQPQAGLSQA NFTLGPVSRS YGGQYTCSGA YNLSSEWSAP SDPLDILITG QIRARPFLSV RPGPTVASGE NVTLLCQSQG GMHTFLLTKE GAADSPLRLK SKRQSHKYQA EFPMSPVTSA HAGTYRCYGS LSSNPYLLTH PSDPLELVVS GAAETLSPPQ NKSDSKAGE<L EPKSCDKTHT CPPCPAPELL GGPSVFLFPP KPKDTLMISR TPEVTCVVVD VSHEDPEVKF NWYVDGVEVH NAKTKPREEQ YNSTYRVVSV LTVLHQDWLN GKEYKCKVSN KALPAPIEKT ISKAKGQPRE PQVYTLPPSR DELTKNQVSL TCLVKGFYPS DIAVEWESNG QPENNYKTTP PVLDSDGSFF LYSKLTVDKS RWQQGNVFSC SVMHEALHNH YTQKSLSLSP GKHHHHHH>

#### **General References**

Jones DC., et al, (2011) Journal of Immunology. 186:2990-2997. Borges L., et al,(1997) Journal of Immunology. 159:5192-5196.

## **DATA**

## **SDS-PAGE**



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

