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Recombinant human LILRA3/CD85e protein

Catalog Number: ATGP4158

PRODUCT INFORMATION

Expression system
HEK293

Domain
24-439aa

UniProt No.
Q8N6C8

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
hIgG-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

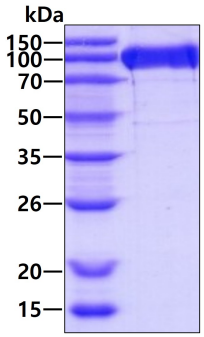
<DGS>GPLPKPT LWAEPGSVIT QGSPVTLRCQ GSLETQEYHL YREKKTALWI TRIPQELVKK GQFPILSITW EHAGRYCCIY GSHTAGLSES SDPLELVVTG AYSKPTLSAL PSPVVTSGGN VTIQCDSQVA FDGFILCKEG EDEHPQCLNS HSHARGSSRA IFSVGPVSPS RRWSYRCYGY DSRAPYVWSL PSDLLGLLVP GVSKKPSLSV QPGPVVAPGE KLTFQCGSDA GYDRFVLYKE WGRDFLQRPG RQPQAGLSQA NFTLGPVSRS YGGQYTCSGA 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