

Recombinant human CD158d/KIR2DL4 protein

Catalog Number: ATGP3639

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

24-242aa

UniProt No.

Q99706

NCBI Accession No.

NP_002246

Alternative Names

Killer cell immunoglobulin like receptor two Ig domains and long cytoplasmic tail 4, Killer cell immunoglobulin-like receptor 2DL4, CD158 antigen-like family member D, G9P, Killer cell inhibitory receptor 103AS, KIR-103AS, MHC class I NK cell receptor KIR103AS, CD158D, KIR103AS,103AS, 15.212

PRODUCT SPECIFICATION

Molecular Weight

51kDa (458aa)

Concentration

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

Formulation

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

Purity

> 85% 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

KIR2DL4, also known as killer cell immunoglobulin-like receptor 2DL4, is a member of the killer cell Ig-like receptor (KIR) family. KIR proteins with the long cytoplasmic domain transduce inhibitory signals via an immune

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tyrosine-based inhibitory motif (ITIM), while KIR proteins with the short lack the ITIM motif and instead associate with the TYRO protein tyrosine kinase binding protein to transduce activating signals. This protein induces NK cells to produce IFN-gamma and stimulation with IL-2 upregulates cell surface expression on CD56dim cells and leads to the inhibition of the cytolytic NK cell function. Recombinant human KIR2DL4 protein, fused to hlgG-His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

HVGGQDKPFC SAWPSAVVPQ GGHVTLRCHY RRGFNIFTLY KKDGVVPPEL YNRIFWNSFL ISPVTPAHAG TYRCRGFHPPH
SPTWEWSAPSN PLVIMVTGLY EKPSLTARPG PTVRAGENVT LSCSSQSSFD IYHLSREGEA HELRLPAVPS INGTFQADFP
LGPATHGETY RCFGSFHGSP YEWSDPDPL PVSVTGNPSS SWPSPTPEFS KTGIARHLHL EPKSCDKTHT CPPCPAPELL
GGPSVFLFPP KPKDTLMISR TPEVTCVVVD VSHEDPEVKF NWYVDGVEVH NAKTKPREEQ YNSTYRVVSV LTVLHQDWLN
GKEYKCKVSN KALPAIEKT ISKAKGQPRE PQVYTLPPSR DELTKNQVSL TCLVKGFYPS DIAVEWESNG QPENNYKTP
PVLDSGDSFF LYSKLTVDKS RWQQGNVFSC SVMHEALHNNH YTKSLSLSP GKHHHHHHH

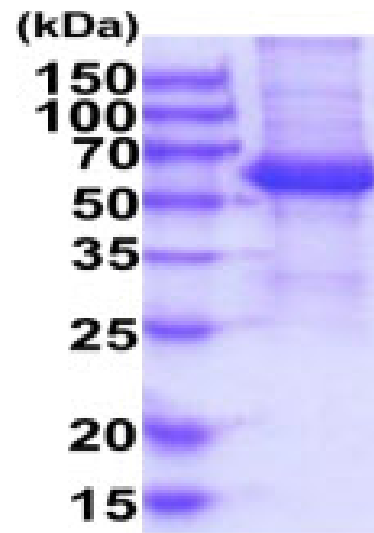
General References

Le Page ME., et al, (2014) J Immunol. 192:732-740.

Li G., et al, (2008) J Leukoc Biol. 84:824-834.

DATA

SDS-PAGE



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

15% SDS-PAGE (3ug)