Recombinant human CD94/KLRD1 protein

Catalog Number: ATGP3669

PRODUCT INFORMATION

Expression system
Baculovirus

Domain
32-179aa

UniProt No.
Q13241

NCBI Accession No.
NP_002253

Alternative Names
Killer cell lectin like receptor D1, Natural killer cells antigen CD94, KP43, Killer cell lectin-like receptor subfamily D member 1, NK cell receptor

PRODUCT SPECIFICATION

Molecular Weight
18.2 kDa (157aa)

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
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
KLRD1, also known as natural killer cells antigen CD94 isoform 1, is expressed on the surface of natural killer cells in the innate immune system. It plays a role as a receptor for the recognition of MHC class I HLA-E molecules by NK cells and some cytotoxic T-cells. This protein can form disulfide-bonded heterodimer with NKG2

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family members. CD94 and NKG2 complex interacts with Human Leukocyte Antigen (HLA) -E on target cells on the surface of natural killer cells. Recombinant human KLRD1, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

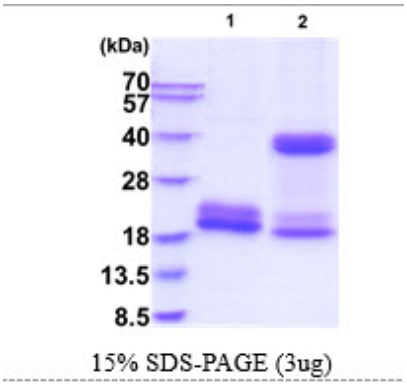
ADPKNSFTKL SIEPAFTPGP NIELQKDSDC CSCQEKWVGY RCNCYFISSE QKTWNESRHL CASQKSSLLQ LQNTDELDFM SSSQQFYWIG LSYSEEHTAW LWENGSALSQ YLFPSFETFN TKNCIAYNPN GNALDESCED KNRYICKQQL IHHHHHH

General References

Phillips JH., et al, (1996) Immunity 5:163-172.
Brooks AG., et al, (1997) J. Exp. Med. 185:795-800.

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

Lane 1: reducing conditions

Lane 2: non-reducing conditions

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