

# Recombinant human CD94/KLRD1 protein

Catalog Number: ATGP3669

## PRODUCT INFORMATION

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### 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

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### 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

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### 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

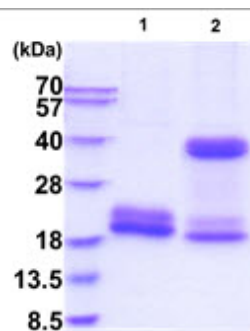
ADPKNSFTKL SIEPAFTPGP NIELQKSDSC CSCQEKWVGY RCNCYFISSE QKTWNESRHL CASQKSSLLQ LQNTDELDFM  
SSSQQFYWIG LSYSEEHTAW LWENGSAALSQ YLFPSFETFN TKNCIAYNPN GNALDESCED KNRYICKQQL IHHHHHH

## 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



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

Lane 1: reducing conditions

Lane 2: non-reducing conditions