

# Recombinant Human NKG2-D/KLRK1/CD314 Protein

Catalog No.: RP01530 **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Human	22914	P26718

### Tags

N-Rabbit Fc

### Synonyms

KLRK1;CD314;D12S2489E;KLR;NKG2-D;NKG2D

## Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE.

Calculated MW	Observed MW
42.29 kDa	50-70 kDa

### Endotoxin

<0.1EU/μg

### Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

### Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## Contact

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## Background

KLRK1 (Killer Cell Lectin Like Receptor K1) is a Protein Coding gene. NKG2D, also known as CD314, is an immune receptor that consists of two disulfide-linked type II transmembrane proteins with short intracellular proteins incapable to transduce signals. To transduce signals, NKG2D needs adaptor proteins and it uses two adaptor proteins, DAP10 and DAP12. These two adaptor proteins associate as homodimers to NKG2D- therefore the entire receptor complex appears as a hexamer. NKG2D can send co-stimulatory signals to activate CD8 T cells. NKG2D also plays an important role in viral control. Cellular stress can induce ligands for NKG2D which results in the cell susceptible to NK cell-mediated lysis.

## Basic Information

### Description

Recombinant Human NKG2-D/KLRK1/CD314 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Ile73-Val216) of human NKG2-D/KLRK1/CD314 (Accession #NP\_031386.2) fused with a raFc tag at the N-terminus.

### Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized human MICA (Catalog: RP00172) at 2 μg/mL (100 μL/well) can bind NKG2D with a linear range of 0.61-205.43 ng/mL.

### Storage

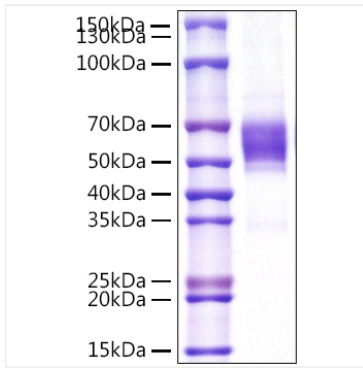
Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

## Validation Data

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Recombinant Human NKG2-D/KLRK1/CD314 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at kDa.