



## Synonym

CD94, KLRD1, KP43, NK cell receptor

## Source

Human CD94, His Tag (CD4-H52H8) is expressed from human 293 cells (HEK293). It contains AA Lys 32 - Ile 179 (Accession # [Q13241-1](#)).

Predicted N-terminus: Lys 32

## Molecular Characterization

CD94(Lys 32 - Ile 179)  
Q13241-1 Poly-his

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 19.1 kDa. The protein migrates as 24-30 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

## Endotoxin

Less than 1.0 EU per µg by the LAL method.

## Purity

>90% as determined by SDS-PAGE.

## Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

## Reconstitution

Please see Certificate of Analysis for specific instructions.

*For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.*

## Storage

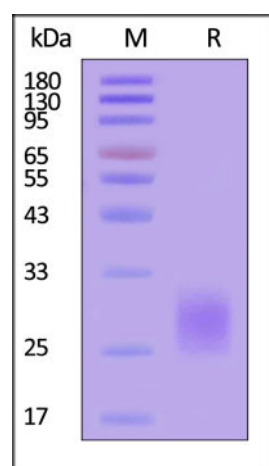
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

## SDS-PAGE



Human CD94, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

## Background

CD94 (Natural killer cells antigen CD94) is also known as KLRD1, KP43, NK cell receptor, Killer cell lectin-like receptor subfamily D member 1. CD94 plays a role as a receptor for the recognition of MHC class I HLA-E molecules by NK cells and some cytotoxic T-cells. KLRD1 (CD94) is an antigen preferentially expressed on NK cells and is classified as a type II membrane protein because it has an external C terminus. CD94 pairs with the NKG2 molecule as a heterodimer. The CD94/NKG2 complex, on the surface of natural killer cells interacts with Human Leukocyte Antigen (HLA)-E on target cells.

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