



## Synonym

NKG2A & CD94

## Source

Biotinylated Human NKG2A&CD94 Protein, Fc,Avitag(NC4-H82F5) is expressed from human 293 cells (HEK293). It contains AA Ala 113 - Leu 233 & Asp 57-Ile 179 (Accession # [P26715-1](#) (NKG2A) & [Q13241-1](#) (CD94)).

Predicted N-terminus: Ala 113 | Asp 57

## Molecular Characterization

NKG2A (Ala 113 - Leu 233) P26715-1	Fc (Pro 100 - Lys 330) P01857
CD94 (Asp 57-Ile 179) Q13241-1	Fc (Pro 100 - Lys 330) P01857

Avi

This protein carries a human IgG1 Fc tag at the C-terminus, followed by an Avi tag (Avitag™).

The protein has a calculated MW of 40.4 kDa & 42.3 kDa. The protein migrates as 50-60 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

## Labeling

*Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.*

## Protein Ratio

Passed as determined by the HABA assay / binding ELISA.

## Purity

>95% 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

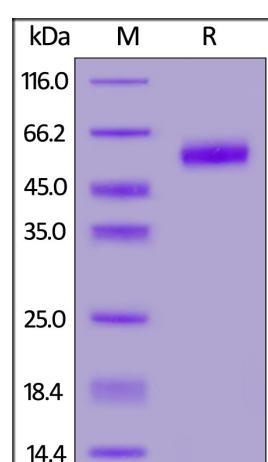
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*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



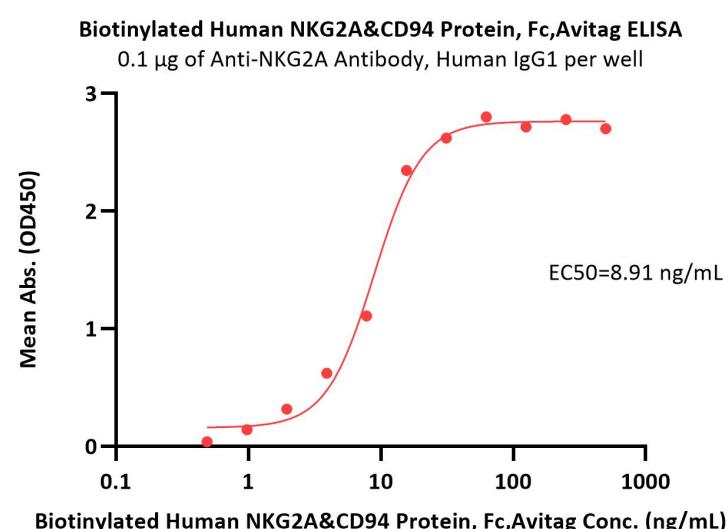
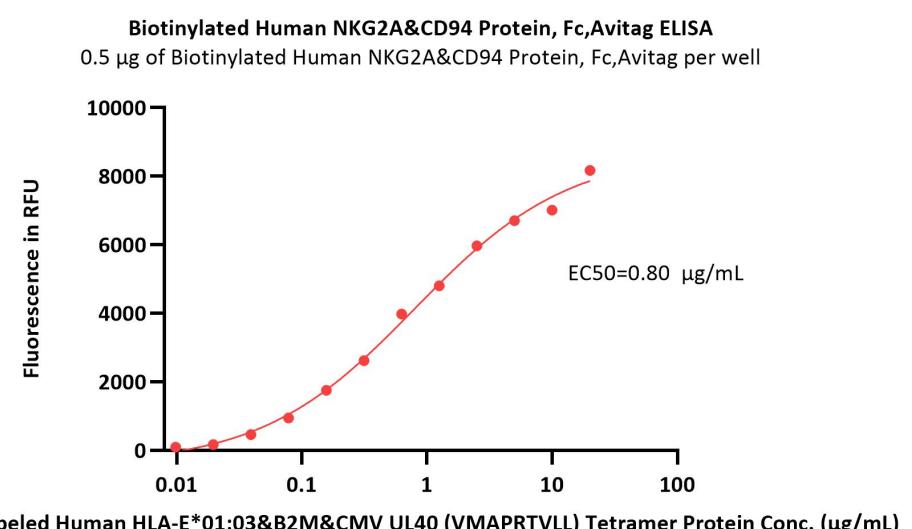
Biotinylated Human NKG2A&CD94 Protein, Fc,Avitag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

## Bioactivity-ELISA

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Immobilized Biotinylated Human NKG2A&CD94 Protein, Fc,Avitag (Cat. No. NC4-H82F5) at 5 µg/mL (100 µL/well) can bind PE-Labeled Human HLA-E\*01:03&B2M&CMV UL40 (VMAPRTVLL) Tetramer Protein (Cat. No. HLU-HP2H5) with a linear range of 0.01-2.5 µg/mL (QC tested).

Immobilized Anti-NKG2A Antibody, Human IgG1 at 1 µg/mL (100 µL/well) can bind Biotinylated Human NKG2A&CD94 Protein, Fc,Avitag (Cat. No. NC4-H82F5) with a linear range of 0.5-16 ng/mL (Routinely tested).

## Background

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. NKG2A/CD159a is a transmembrane protein belonging to the CD94/NKG2 family of C-type lectin-like receptors that inhibits innate immune system activation. 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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