Biotinylated Cynomolgus NKG2A&CD94 Protein, Fc,Avitag™ (MALS verified)

Catalog # NC4-C82F7

Synonym

NKG2A & CD94

Source

Biotinylated Cynomolgus NKG2A&CD94, Fc,Avitag(NC4-C82F7) is expressed from human 293 cells (HEK293). It contains AA Ala 113 - Leu 233 (NKG2A) & Asp 57 - Ile 179 (CD94) (Accession # Q68VD2 (NKG2A) & Q68VD4 (CD94)).

Molecular Characterization

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 56.8 kDa. The protein migrates as 65-68 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.

>90% as determined by SEC-MALS.

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

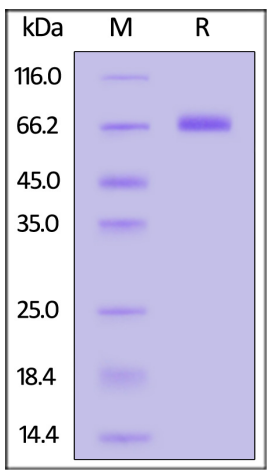
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

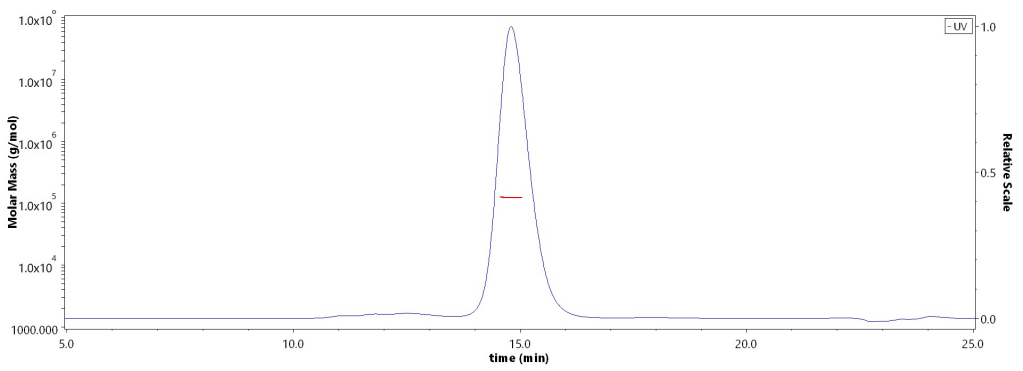
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Biotinylated Cynomolgus NKG2A&CD94, 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%.

SEC-MALS



The purity of Biotinylated Cynomolgus NKG2A&CD94, Fc,Avitag (Cat. No. NC4-C82F7) is more than 90% and the molecular weight of this protein is around 115-135 kDa verified by SEC-MALS.
Report

Bioactivity-ELISA

Biotinylated Cynomolgus NKG2A&CD94 Protein, Fc,Avitag™ (MALS verified)

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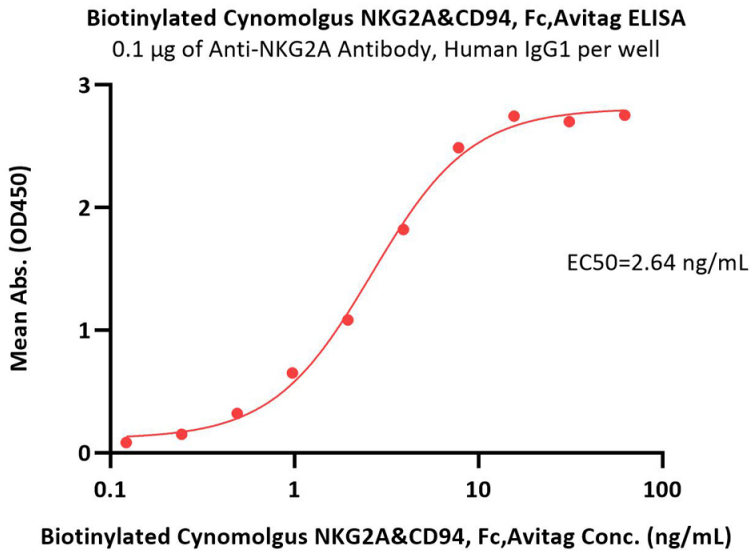
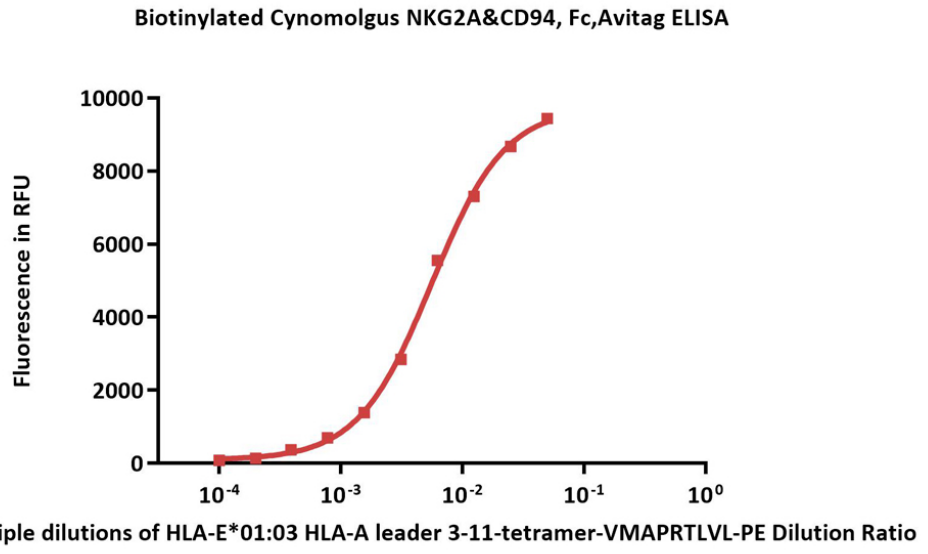


Immobilized Anti-NKG2A Antibody, Human IgG1 at 1 μg/mL (100 μL/well) can bind Biotinylated Cynomolgus NKG2A&CD94, Fc,Avitag (Cat. No. NC4-C82F7) with a linear range of 0.1-16 ng/mL (QC tested).



Immobilized Biotinylated Cynomolgus NKG2A&CD94, Fc,Avitag (Cat. No. NC4-C82F7) at 1 μg/mL (100 μL/well) on streptavidin (Cat. No. STN-N5116) precoated (0.5 μg/well) plate can bind various dilution ratio of HLA-E*01:03 HLA-A leader3-11 Tetramer-VMAPRTLVL-PE (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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