

**Synonym**

NKG2A &amp; CD94

**Source**

Human NKG2A&CD94, Mouse IgG2a Fc Tag(NC4-H5253) is expressed from human 293 cells (HEK293). It contains AA Ala 113 - Leu 233 (NKG2A) & Asp 57 - Ile 179 (CD94) (Accession # [P26715-1](#) (NKG2A) & [Q13241-1](#) (CD94)).

Predicted N-terminus: Ala 113

**Molecular Characterization**

This protein carries a mouse IgG2a Fc tag at the C-terminus.

The protein has a calculated MW of 55.5 kDa. The protein migrates as 65-80 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

**Endotoxin**

Less than 0.1 EU per µg by the LAL method.

**Purity**

>95% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

**Formulation**

Lyophilized from 0.22 µm filtered solution in 50 mM Tris, 100 mM Glycine, 150 mM NaCl, pH7.5 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.*

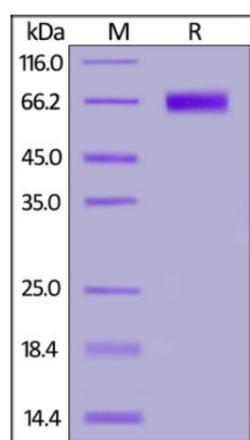
**Storage**

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

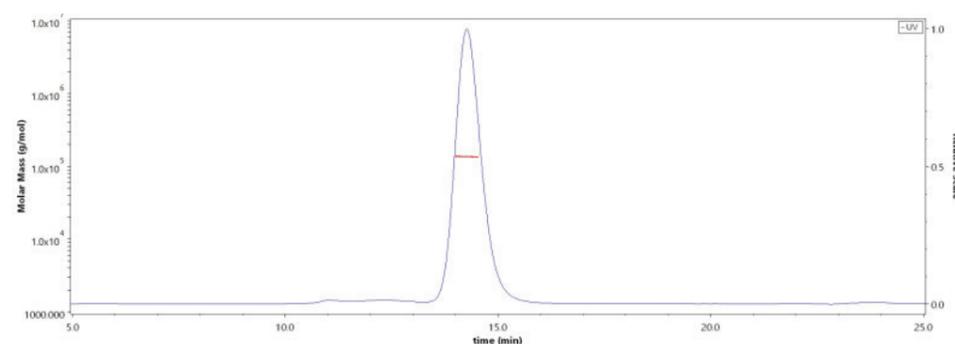
*Please avoid repeated freeze-thaw cycles.*

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.

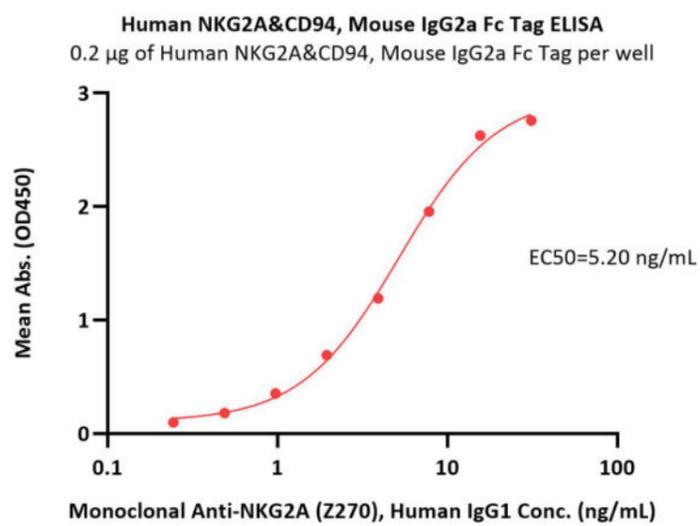
**SDS-PAGE**

Human NKG2A&CD94, Mouse IgG2a Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

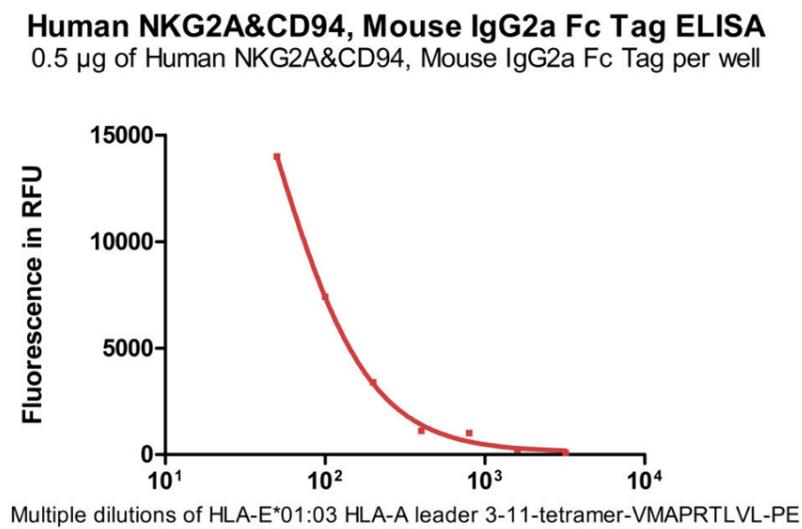
**Bioactivity-ELISA****SEC-MALS**

The purity of Human NKG2A&CD94, Mouse IgG2a Fc Tag (Cat. No. NC4-H5253) is more than 90% and the molecular weight of this protein is around 125-145 kDa verified by SEC-MALS.

[Report](#)



Immobilized Human NKG2A&CD94, Mouse IgG2a Fc Tag (Cat. No. NC4-H5253) at 2 µg/mL (100 µL/well) can bind Monoclonal Anti-NKG2A (Z270), Human IgG1 with a linear range of 0.2-8 ng/mL (QC tested).



Immobilized Human NKG2A&CD94, Mouse IgG2a Fc Tag (Cat. No. NC4-H5253) at 5 µg/mL (100 µL/well) 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.

## Clinical and Translational Updates

Please contact us via [TechSupport@acrobiosystems.com](mailto:TechSupport@acrobiosystems.com) if you have any question on this product.