Human NKG2C&CD94 Protein, Fc Tag

Catalog # NC4-H5258

Synonym

NKG2C & CD94

Source

Human NKG2C&CD94, Fc Tag (NC4-H5258) is expressed from human 293 cells (HEK293). It contains AA Ile 94 - Leu 231 (NKG2C) & Asp 57 - Ile 179 (CD94) (Accession # P26717-1 (NKG2C) & Q13241-1 (CD94) (F102S, mutation caused by sequence update)).
Predicted N-terminus: Ile 94

Molecular Characterization

This protein carries a human IgG1 Fc tag at the C-terminus.

The protein has a calculated MW of 57.1 kDa. The protein migrates as 65-80 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per μg by the LAL method / rFC method.

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

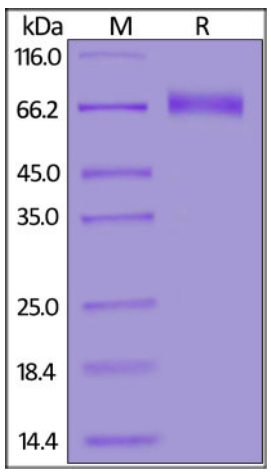
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

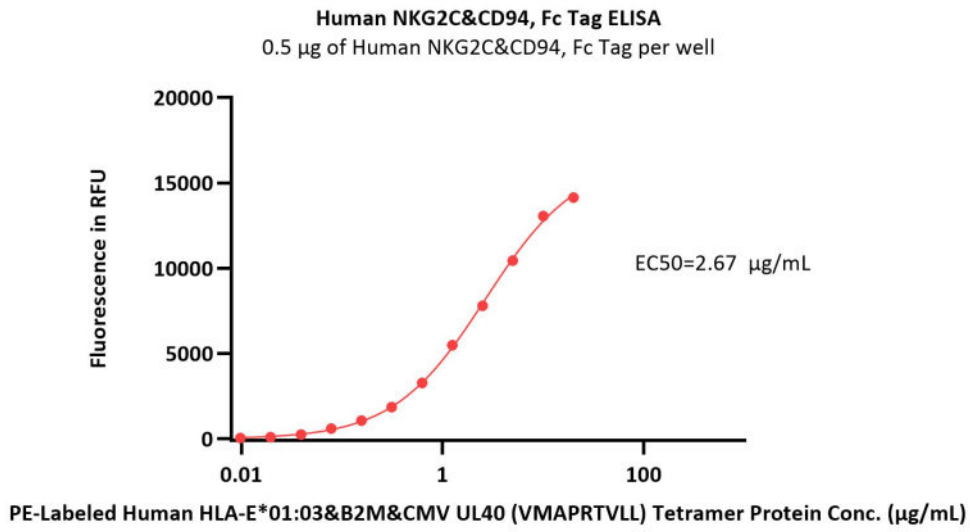
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Human NKG2C&CD94, 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



Immobilized Human NKG2C&CD94, Fc Tag (Cat. No. NC4-H5258) 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 0.01-5 μg/mL (QC 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. NKG2C/CD159c is used as a receptor for NK cells and some cytotoxic T cells to recognize MHC class I HLA-E molecules. 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.