Rat NKG2A&CD94 Protein, Mouse IgG2a Fc Tag (MALS verified)

Catalog # NC4-R5258

Synonym

NKG2A & CD94

Source

Rat NKG2A&CD94 Protein, Mouse IgG2a Fc Tag(NC4-R5258) is expressed from human 293 cells (HEK293). It contains AA Thr 90 - Asn 231 (NKG2A) & Lys 32 - Thr 179 (CD94) (Accession # O54872-1 (NKG2A) & O35778-1 (CD94)).
Predicted N-terminus: Thr 90

Molecular Characterization

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

The protein has a calculated MW of 61.0 kDa. The protein migrates as 67-90 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 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 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

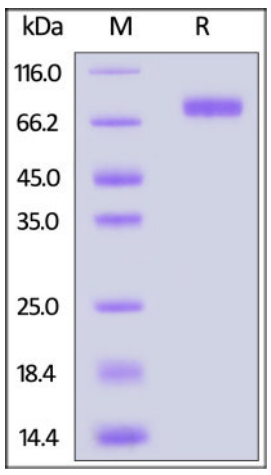
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

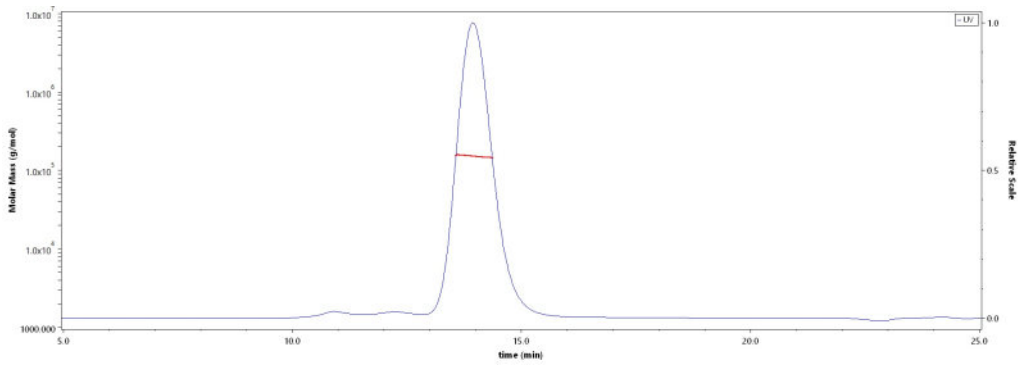
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



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

SEC-MALS



The purity of Rat NKG2A&CD94 Protein, Mouse IgG2a Fc Tag (Cat. No. NC4-R5258) is more than 90% and the molecular weight of this protein is around 145-160 kDa verified by SEC-MALS.
Report

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 if you have any question on this product.