

# Human NKG2A&CD94 Protein

Cat. No. NKC-HM294

## Description

|                         |  |
|-------------------------|--|
| <b>Source</b>           | Recombinant Human NKG2A&CD94 Protein is expressed from HEK293 with hFc tag and Flag tag at the N-Terminus.<br>It contains Arg100-Ala219 (NKG2A) and Ser34-Ile179 (CD94). |
| <b>Accession</b>        | P26715-1(NKG2A)&Q13241-1(CD94)   |
| <b>Molecular Weight</b> | The protein has a predicted MW of 17.9 kDa (CD94) and 41.1 kDa (NKG2A). Due to glycosylation, the protein migrates to 50-70 kDa based on Tris-Bis PAGE result.           |
| <b>Endotoxin</b>        | Less than 1EU per µg by the LAL method.  |
| <b>Purity</b>           | > 95% as determined by Tris-Bis PAGE<br>> 95% as determined by HPLC  |

## Formulation and Storage

|                       |  |
|-----------------------|--|
| <b>Formulation</b>    | Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.   |
| <b>Reconstitution</b> | Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.   |
| <b>Storage</b>        | -20 to -80°C for 24 months as supplied from date of receipt. -80°C for 3-6 months after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles. |

## Background

The ligand-receptor assignment between HLA-G and NKG2A/CD94 is dependent of the amino acid composition in the HLA-G heavy chain. Understanding the biophysical basis of receptor-mediated events that lead to NK cell inhibition would help to remove non-tumor reactive cells and support personalized mild autologous NK cell therapies.

## Assay Data

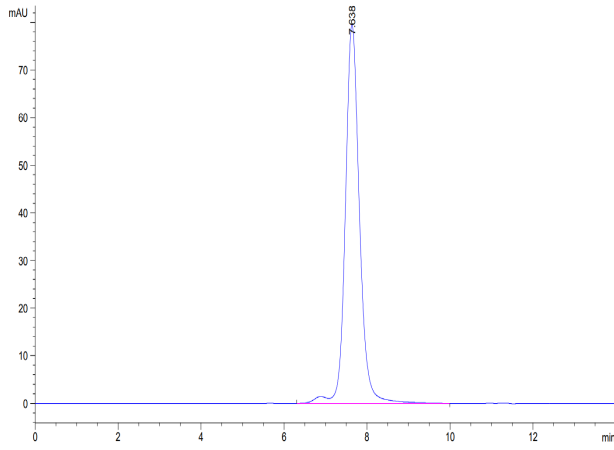
### Tris-Bis PAGE



Human NKG2A&CD94 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC

Assay Data



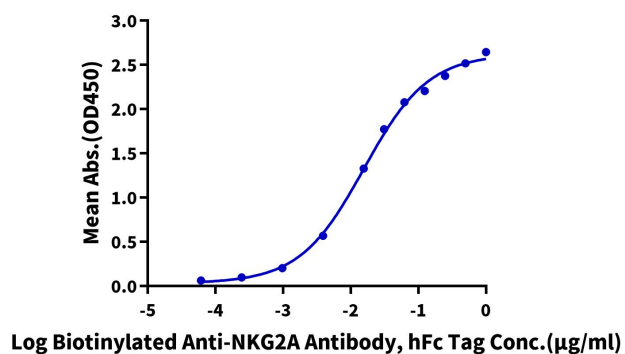
The purity of Human NKG2A&CD94 is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

**Human NKG2A&CD94, hFc Tag ELISA**

0.2µg Human NKG2A&CD94, hFc Tag Per Well



Immobilized Human NKG2A&CD94, hFc tag at 2µg/ml (100µl/Well) on Fc Antibody (5µg/ml) precoated plate. Dose response curve for Biotinylated Anti-NKG2A Ab., hFc Tag with the EC50 of 15.7ng/ml determined by ELISA.