

# Mouse NKG2A&CD94 Protein

Cat. No. NKC-MM394

## Description

<b>Source</b>	Recombinant Mouse NKG2A&CD94 Protein is expressed from HEK293 with mFc (IgG1) tag at the C-terminus and Flag tag at the N-terminus. It contains Asn98-Ile244(NKG2A) and Ile32-Ile179(CD94).
<b>Accession</b>	Q9WU31(NKG2A)&O54707(CD94)
<b>Molecular Weight</b>	The protein has a predicted MW of 18.3 kDa (CD94) and 43.1 kDa (NKG2A). Due to glycosylation, the protein migrates to 60-70 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

## Formulation and Storage

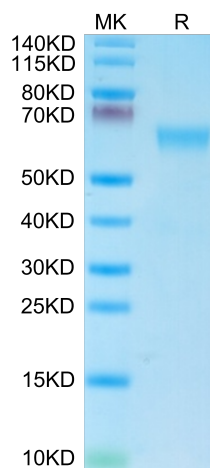
<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months 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.

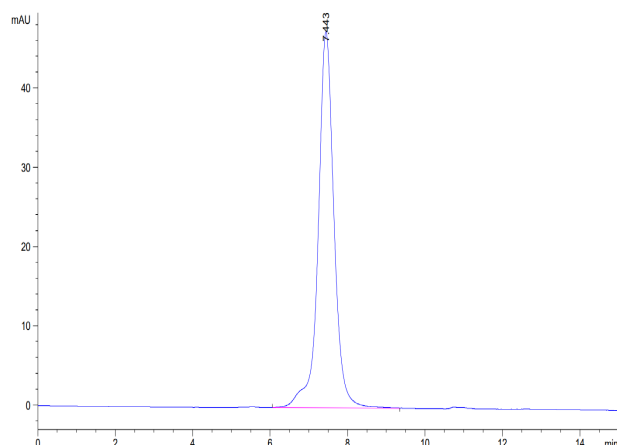
## Assay Data

### Bis-Tris PAGE



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

### SEC-HPLC



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