

# Human NKG2C&CD94 Protein

Cat. No. NKC-HM696

## Description

<b>Source</b>	Recombinant Human NKG2C&CD94 Protein is expressed from HEK293 with His tag and Avi tag at the N-Terminus. It contains Glu98-Leu231(NKG2C)&Ser34-Ile179(CD94).
<b>Accession</b>	P26717(NKG2C)&Q13241-1(CD94)
<b>Molecular Weight</b>	The protein has a predicted MW of 15.3kDa (NKG2C)&17.9kDa (CD94). Due to glycosylation, the protein migrates to 30-50 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

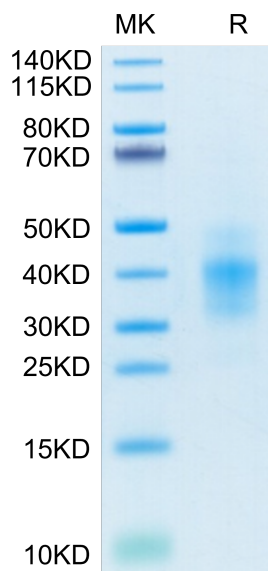
<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3-6 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

NKG2C&CD94 is a C-type lectin heterodimer on NK cells and CD8+ cytotoxic T-cells, it can recognize peptides derived from the intracellular proteins in the context of HLA-E. NKG2C&CD94 itself has no signal transduction function but is an activating receptor on the surface of NK cells that involved in driving the NK-cell expansion.

## Assay Data

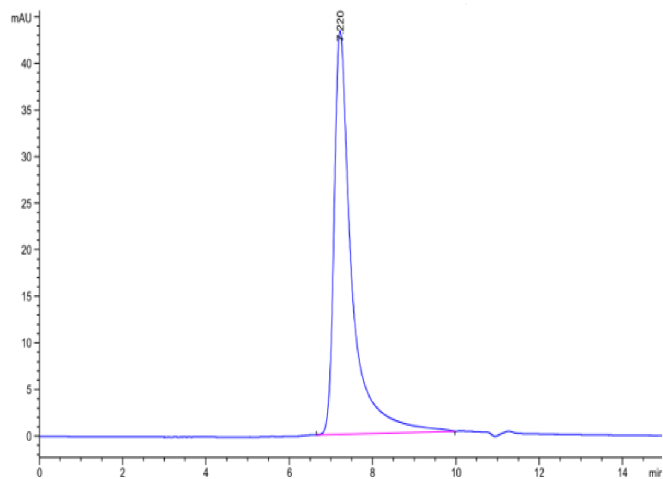
### Bis-Tris PAGE



Human NKG2C&CD94 on Bis-Tris PAGE under reduced conditions. The purity is greater than 95%.

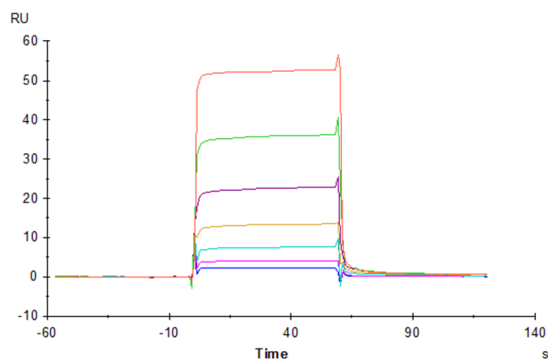
### SEC-HPLC

Assay Data



The purity of Human NKG2C&CD94 is greater than 95% as determined by SEC-HPLC.

SPR Data



Human NKG2C&CD94, His Tag immobilized on CM5 Chip can bind Human HLA-E\*01:03 Complex Tetramer, His Tag with an affinity constant of 1.65  $\mu\text{M}$  as determined in SPR assay (Biacore T200).