

# Mouse NKG2D/CD314 Protein

Cat. No. NKG-MM12D

## Description

<b>Source</b>	Recombinant Mouse NKG2D/CD314 Protein is expressed from HEK293 with His tag at the N-Terminus. It contains Phe90-Val232.
<b>Accession</b>	O54709-1
<b>Molecular Weight</b>	The protein has a predicted MW of 17.5 kDa. Due to glycosylation, the protein migrates to 24-35kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1EU per $\mu\text{g}$ by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

## Formulation and Storage

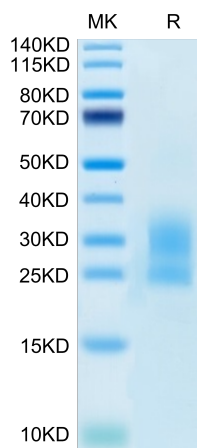
<b>Formulation</b>	Lyophilized from 0.22 $\mu\text{m}$ filtered solution in 20mM Tris, 250mM NaCl (pH 8.0). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ 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

NKG2D is a type II transmembrane glycoprotein having an extracellular lectin-like domain. This domain lacks the recognizable calcium-binding sites found in true C-type lectins and binds protein rather than carbohydrate ligands. Human NKG2D is expressed on CD8 alpha beta T cells, gamma  $\delta$  T cells, NK cells and NKT cells.

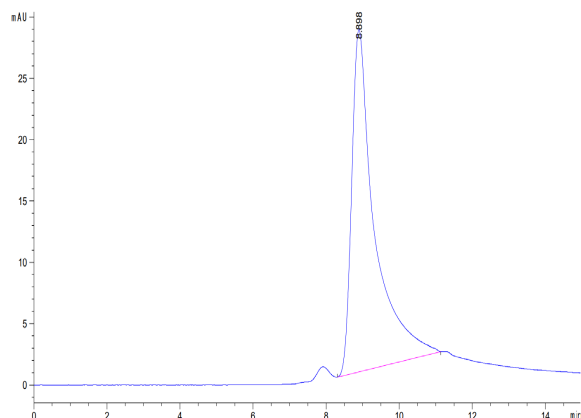
## Assay Data

### Bis-Tris PAGE



Mouse NKG2D on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC



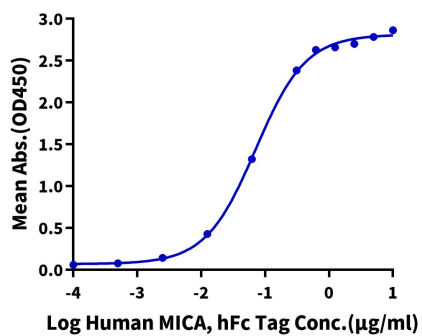
The purity of Mouse NKG2D is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

Mouse NKG2D, His Tag ELISA

0.5µg Mouse NKG2D, His Tag Per Well



Immobilized Mouse NKG2D, His Tag at 5µg/ml (100µl/well) on the plate. Dose response curve for Human MICA, hFc Tag with the EC50 of 71.3ng/ml determined by ELISA.