# Human NKG2D/CD314 Protein

**Cat. No.** NKG-HM22D

## Description

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|---|---|
| **Source** | Recombinant Human NKG2D/CD314 Protein is expressed from HEK293 with hFc tag and Flag tag at the N-Terminus. |
| | It contains Phe78-Val216. |
| **Accession** | P26718 |
| **Molecular Weight** | The protein has a predicted MW of 43.4 kDa. Due to glycosylation, the protein migrates to 50-70 kDa based on Bis-Tris PAGE result. |
| **Endotoxin** | Less than 1EU per μg by the LAL method. |
| **Purity** | > 95% as determined by Bis-Tris PAGE |
| | > 95% as determined by HPLC |

## Formulation and Storage

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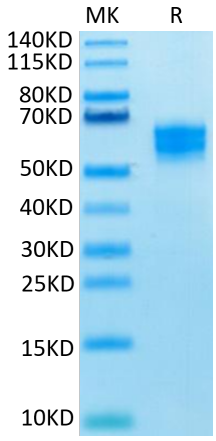
|---|---|
| **Formulation** | Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization. |
| **Reconstitution** | Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled water. |
| **Storage** | -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 δ T cells, NK cells and NKT cells.

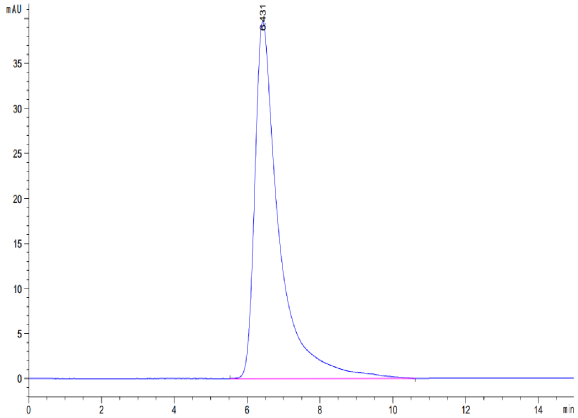
## Assay Data

### Bis-Tris PAGE




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

### SEC-HPLC




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

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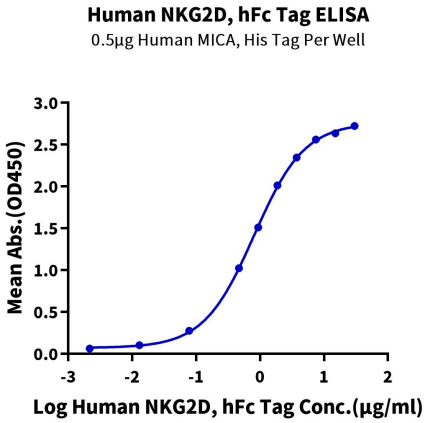
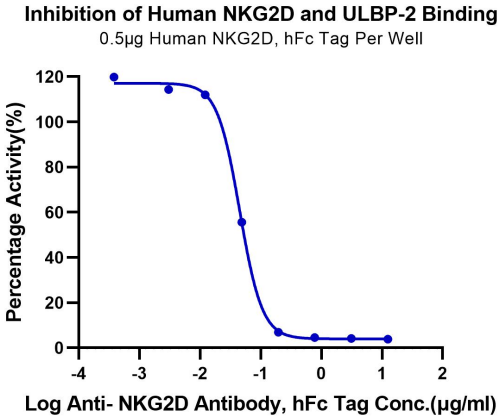
## Assay Data

### ELISA Data




Immobilized Human MICA, His Tag at 5μg/ml (100μl/Well) on the plate. Dose response curve for Human NKG2D, hFc Tag with the EC50 of 0.81μg/ml determined by ELISA (QC Test).

### Blocking Data




Serial dilutions of Anti-NKG2D Antibody, hFc Tag were added into Biotinylated Human ULBP-2, His Tag : Human NKG2D, hFc Tag binding reactioins. The half maximal inhibitiory concentration (IC50) is 45.2ng/ml.

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