

# Biotinylated Human NKG2D/CD314 Protein, Ultra Low Endotoxin



Cat. No. NKG-HM42DB-UL

Description	
Source	Recombinant Biotinylated Human NKG2D/CD314 Protein is expressed from HEK293 with Avi tag and His tag at the N-Terminus. It contains Phe78-Val216.
Accession	P26718
Molecular Weight	The protein has a predicted MW of 19.0 kDa. Due to glycosylation, the protein migrates to 36-40 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 0.01 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 90% as determined by HPLC

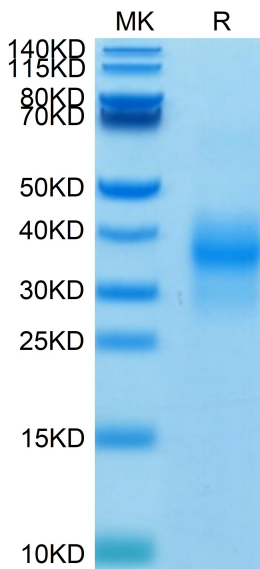
Formulation and Storage	
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
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

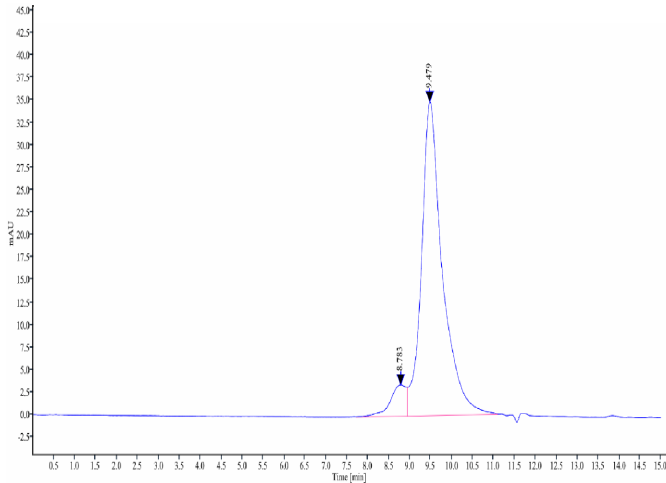
### Bis-Tris PAGE



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

### SEC-HPLC

Assay Data

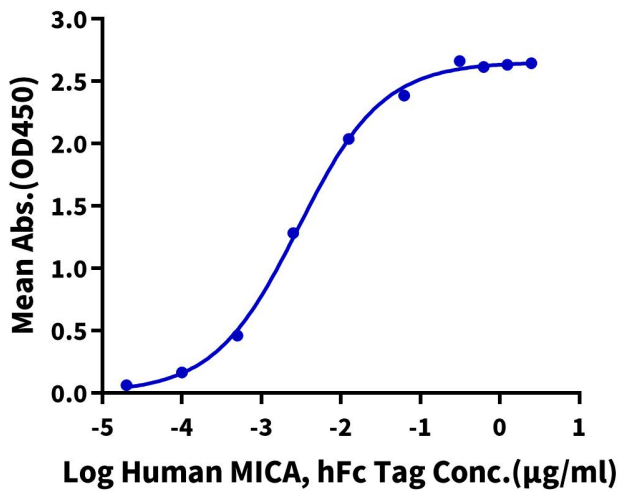


The purity of Biotinylated Human NKG2D is greater than 90% as determined by SEC-HPLC.

ELISA Data

**Biotinylated Human NKG2D, His-Avi Tag ELISA**

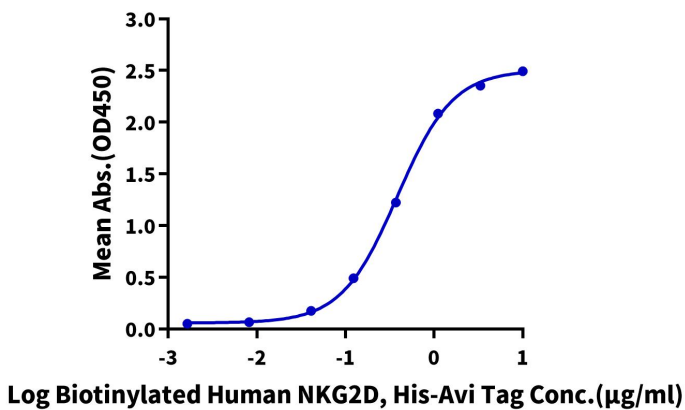
0.1µg Biotinylated Human NKG2D, His-Avi Tag Per Well



Immobilized Biotinylated Human NKG2D, His-Avi Tag at 1µg/ml (100µl/well) on the streptavidin precoated plate (5µg/ml). Dose response curve for Human MICA, hFc Tag with the EC50 of 2.9ng/ml determined by ELISA (QC Test).

**Biotinylated Human NKG2D, His-Avi Tag ELISA**

0.2µg Anti-NKG2D Antibody, hFc Tag Per Well



Immobilized Anti-NKG2D Antibody at 2µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Human NKG2D, His-Avi Tag with the EC50 of 0.39µg/ml determined by ELISA.