Human NKG2D/CD314 Protein

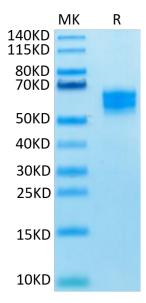
Cat. No. NKG-HM22D



	
Description	
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 St	orage
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 receipt80°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

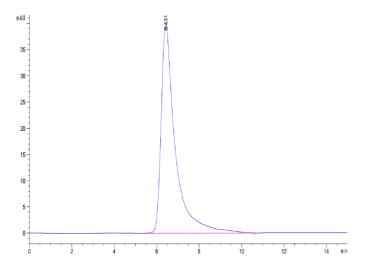


Human NKG2D on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

KAGTUS

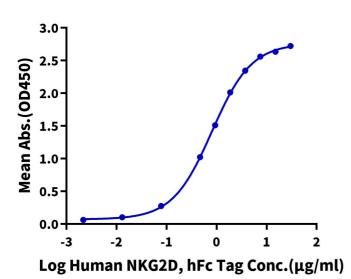
Assay Data



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

ELISA Data

Human NKG2D, hFc Tag ELISA 0.5µg Human MICA, His Tag Per Well

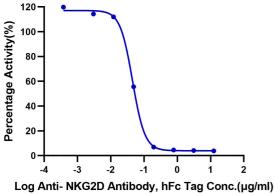


Immobilized Human MICA, His Tag at 5μ g/ml (100 μ I/Well) on the plate. Dose response curve for Human NKG2D, hFc Tag with the EC50 of 0.81 μ g/ml determined by ELISA (QC Test).

Blocking Data

Inhibition of Human NKG2D and ULBP-2 Binding

0.5μg Human NKG2D, hFc Tag Per Well



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.