Human NKG2D/CD314 Protein

Cat. No. NKG-HM42D

Description

Source	Recombinant Human NKG2D/CD314 Protein is expressed from Expi293 with His tag and Avi tag at the N-terminal.
	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 36-38 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE

Formulation and Storage

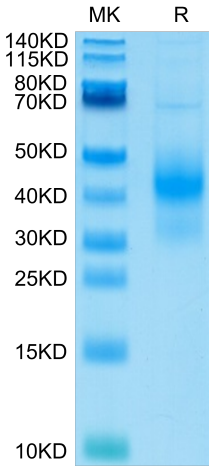
Formulation	Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 5% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge tubes before opening. Reconstituting to a concentration more than 100 μg/ml is recommended (usually we use 1mg/ml solution for lyophilization). Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -20 to -80°C for 3-6 months in unopened state after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please avoid 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.

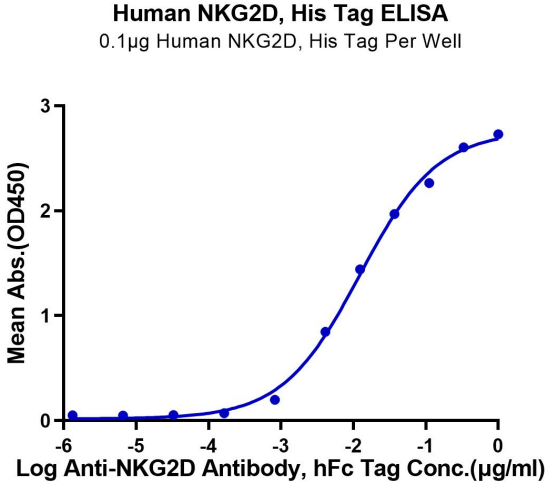
Assay Data

Tris-Bis PAGE



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

ELISA Data



Immobilized Human NKG2D, His Tag at 1μg/ml (100μl/well) on the plate. Dose response curve for Anti-NKG2D Antibody, hFc Tag with the EC50 of 12.2ng/ml determined by ELISA.