Human NKG2A&CD94 Protein

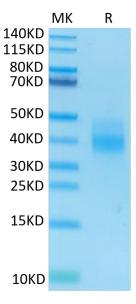
Cat. No. NKC-HM495



Description	
Source	Recombinant Human NKG2A&CD94 Protein is expressed from HEK293 with His tag and Avi tag at the N-Terminus.
	It contains Arg100-Leu233 (NKG2A) and Ser34-Ile179 (CD94).
Accession	P26715-1(NKG2A)&Q13241-1(CD94)
Molecular Weight	The protein has a predicted MW of 17.9 kDa (CD94) and 18.3 kDa (NKG2A). Due to glycosylation, the protein migrates to 33-48 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	
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 24 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	
	The ligand-receptor assignment between HLA-G and NKG2A/CD94 is dependent of the amino acid composition in the HLA-G heavy chain. Understanding the biophysical basis of receptor-mediated events that lead to NK cell inhibition would help to remove non-tumor reactive cells and support personalized mild autologous NK cell therapies.

Assay Data

Bis-Tris PAGE

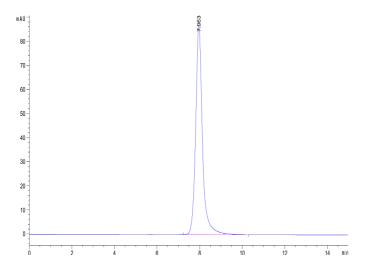


Human NKG2A&CD94 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

KAGTUS

Assay Data

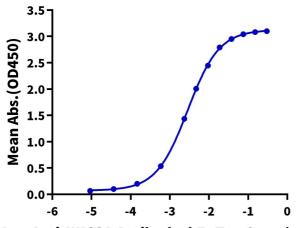


The purity of Human NKG2A&CD94 is greater than 95% as determined by SEC-HPLC.

ELISA Data

Human NKG2A&CD94, His Tag ELISA

0.1µg Human NKG2A&CD94, His Tag Per Well

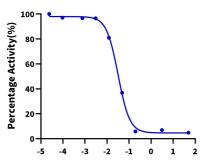


Log Anti-NKG2A Antibody, hFc Tag Conc.(μg/ml)

Blocking Data

Inhibition of Human NKG2A&CD94 and HLA-E*01:03 Binding

0.2μg Human NKG2A&CD94, His Tag Per Well



Log Anti-NKG2A Antibody, hFc Tag Conc.(μg/ml)

Immobilized Human NKG2A&CD94, His Tag at 1 μ g/ml (100 μ l/well) on the plate. Dose response curve for Anti-NKG2A Antibody, hFc Tag with the EC50 of 2.9ng/ml determined by ELISA (QC Test).

Serial dilutions of Anti-NKG2A Antibody, hFc Tag were added into Human NKG2A&CD94, His Tag: Biotinylated Human HLA-E*01:03 Complex Tetramer, His Tag binding reactions. The half maximal inhibitiory concentration (IC50) is 31.8ng/ml.