

Recombinant Human NKG-2D/KLRK1/CD314 Protein

Catalog No.: RP01879 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
human	22914	P26718

Tags

N-hFc

Synonyms

KLR;CD314;NKG2D;NKG2-D

Product Information

Source	Purification
HEK293 cells	

Calculated MW	Observed MW
42.61 kDa	50-65 kDa

Endotoxin

<0.1EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

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Background

NKG2D is a transmembrane protein belonging to the CD94/NKG2 family of C-type lectin-like receptors, also known as KLRK1, CD314, D12S2489E, KLR and killer cell lectin like receptor K1. NKG2D itself forms a homodimer whose ectodomains serve for ligand binding. NKG2D is a major recognition receptor for the detection and elimination of transformed and infected cells as its ligands are induced during cellular stress, either as a result of infection or genomic stress such as in cancer. In NK cells, NKG2D serves as an activating receptor, which itself is able to trigger cytotoxicity. The function of NKG2D on CD8+ T cells is to send co-stimulatory signals to activate them.

Basic Information

Description

Recombinant Human NKG-2D/KLRK1/CD314 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Ile73-Val216) of Human NKG-2D/KLRK1/CD314 (Accession #NP_001186734.1) fused with a hFc at the N-terminus.

Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized Human MICA(Catalog: RP00172) at 2 μg/mL (100 μL/well) can bind Human NKG-2D/KLRK1/CD314 (Catalog: RP01879) with a linear range of 0.005-0.98 μg/mL.

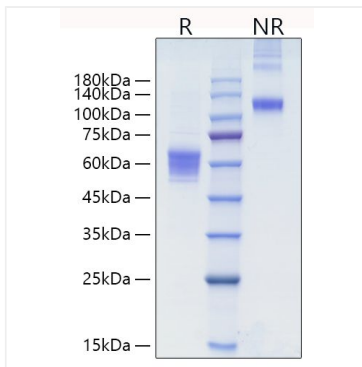
Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Human NKG-2D/KLRK1/CD314 Protein was resolved with SDS PAGE under reducing (R) and non-reducing (NR) conditions showing single bands at 50-65 kDa and 100-140 kDa, respectively.