

Recombinant Human NKG2D/CD314 Protein (His Tag)

Catalog Number:PKSH033409



Note: Centrifuge before opening to ensure complete recovery of vial contents.

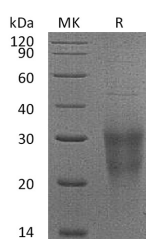
Description

Synonyms	CD314;KLRK1;CD314 antigen;Killer cell lectin-like receptor subfamily K member 1;killer cell lectin-like receptor subfamily K;member 1;KLR;NK cell receptor D;NKG2-D;NKG2-D type II integral membrane protein;NKG2-D-activating NK recepto
Species	Human
Expression Host	HEK293 Cells
Sequence	Phe78-Val216
Accession	P26718
Calculated Molecular Weight	16.9 kDa
Observed molecular weight	20-33 kDa
Tag	N-His

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

Background

NKG2-D type II integral membrane protein (NKG2D) is a type II transmembrane glycoprotein which belongs to the CD94/NKG2 family. NKG2D is expressed on natural killer (NK) cells; CD8+ alpha-beta and gamma-delta T-cells. As an activating and costimulatory receptor; it involved in immunosurveillance upon binding to various cellular stress-inducible ligands displayed at the surface of autologous tumor cells and virus-infected cells. It provides both stimulatory and costimulatory innate immune responses on activated killer (NK) cells; leading to cytotoxic activity. It stimulates perforin-

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mediated elimination of ligand-expressing tumor cells. Signaling involves calcium influx; culminating in the expression of TNF-alpha. NKG2D participates in NK cell-mediated bone marrow graft rejection and survival of NK cells. It Binds to ligands belonging to various subfamilies of MHC class I-related glycoproteins including MICA; MICB; RAET1E; RAET1G; ULBP1; ULBP2; ULBP3 (ULBP2>ULBP1>ULBP3) and ULBP4.

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