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Recombinant Mouse NKG2-D type II Integral Membrane Protein/NKG2D/CD314 (N-Fc)

Catalog No. PKSM041404

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-activatingNK

receptor;NKG2D

Species Mouse

Expression Host HEK293 Cells **Sequence** Phe94 - Val232

Accession O54709
Calculated Molecular Weight 42.2 kDa
Observed molecular weight 45-60 kDa
Tag N-Fc

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.

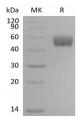
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as

protectants before lyophilization.

Please refer to the specific buffer information in the printed manual.

Reconstitution Please refer to the printed manual for detailed information.

<u>Data</u>



> 95 % as determined by reducing SDS-PAGE.

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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 perforinmediated 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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