

PRODUCT INFORMATION

NKG2D **Target**

Synonyms NK cell receptor D;CD314;Klrk1;Nkg2d

Recombinant mouse NKG2D protein with N-Description

terminal human Fc tag

Delivery In Stock **Uniprot ID** 054709 **Expression Host HEK293**

N-Human Fc Tag Tag

Molecular

hFc(Glu99-Ala330) Mouse NKG2D(Phe90-Val232) Characterization

The protein has a predicted molecular mass of 42.6 kDa after removal of the signal peptide. The **Molecular Weight**

apparent molecular mass of hFc-mNKG2D is approximately 35-55 kDa due to glycosylation. The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue

Purity

staining.

Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis Formulation & Reconstitution

for specific instructions of reconstitution. Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store

Storage & Shipping at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient

temperature.

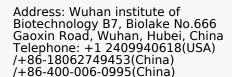
Function as an activating and costimulatory receptor involved in immunosurveillance upon binding to various cellular stress-inducible ligands displayed at the surface of autologous tumor cells and virus-infected cells. Provides both stimulatory and costimulatory innate immune responses on activated killer (NK) cells, leading to cytotoxic activity. Acts as a costimulatory receptor for T-cell receptor (TCR) in CD8() T-cell-mediated adaptive immune responses by amplifying T-cell activation.

Background Stimulates perforin-mediated elimination of ligand-expressing tumor cells. Signaling involves călcium influx, culminating in the expression of TNF-alpha. Participates in NK cell-mediated bone

marrow graft rejection. May play a regulatory role in differentiation and survival of NK cells. Binds to ligands belonging to various subfamilies of MHC class I-related glycoproteins including RAET1A, RAET1B, RAET1C, RAET1D, RAET1E, H60 and MULT1.[UniProtKB/Swiss-Prot Function]

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Usage Research use only Conjugate Unconjugated







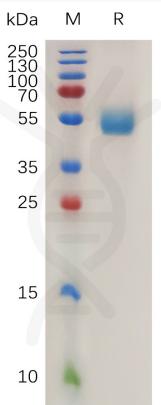


Figure 1. Mouse NKG2D Protein, hFc Tag on SDS-PAGE under reducing condition.

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