

Recombinant Human NKG2D Catalog No: CU41

Description Recombinant Human Natural Killer G2D is produced by our Mammalian expression system and the

target gene encoding Phe78-Val216 is expressed with a Fc tag at the N-terminus.

Source **Human Cells**

Alternative name NKG2-D type II integral membrane protein; KLRK1

P26718 Accession No.

Formulation Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4.

Quality Control Greater than 95% as determined by reducing SDS-PAGE. Purity:

Endotoxin: Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.

Shipping The product is shipped at ambient temperature.

Upon receipt, store it immediately at the temperature listed below.

Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Storage

> Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Amino Acid Sequence

GSGSDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEV HNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPP SREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQG NVFSCSVMHEALHNHYTQKSLSLSPGKIEGRFLNSLFNQEVQIPLTESYCGPCPKNWICYKNNCYQFFD

ESKNWYESQASCMSQNASLLKVYSKEDQDLLKLVKSYHWMGLVHIPTNGSWQWEDGSILS

PNLLTIIEMQKGDCALYASSFKGYIENCSTPNTYICMQRTV

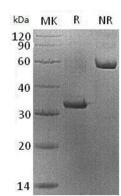
NKG2-D type II integral membrane protein (NKG2D) is a type II transmembrane glycoprotein which belongs to the CD94/NKG2 family. NKG2D is expressed on natural killer (NK) cells, CD8+ alpha-beta

and gamma-delta T- cells. As an activating and costimulatory receptor, it involved in

Background

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.



SDS-Page

