

## Product datasheet for **TP727777**

### **NKG2D (KLRK1) Human Recombinant Protein**

#### **Product data:**

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	Recombinant Human Natural Killer G2D/NKG2D/CD314/KLRK1 (N-Fc)
<b>Species:</b>	Human
<b>Expression cDNA Clone or AA Sequence:</b>	Phe78-Val216
<b>Tag:</b>	N-Fc
<b>Buffer:</b>	Lyophilized from a 0.2 um filtered solution of PBS, pH 7.4.
<b>Note:</b>	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.
<b>Stability:</b>	12 months from date of despatch
<b>Locus ID:</b>	22914
<b>UniProt ID:</b>	<a href="#">P26718</a>
<b>Summary:</b>	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-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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