

## NKG2D/CD314 Protein, Human, Recombinant (hFc & Flag), FITC-Labeled

### General Information

Synonyms:	NKG2D;KLR;CD314;D12S2489E;NKG2-D
Protein Construction:	Phe78-Val216
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P26718
Molecular Weight:	43.4 kDa (predicted). Due to glycosylation, the protein migrates to 50-70 kDa based on Tris-Bis PAGE result.

### QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Supplied as 0.22 µm filtered solution in PBS (pH 7.4).

### Preparation and Storage

#### Stability & Storage:

It is recommended to store the product under sterile conditions at -70°C or lower. Samples are stable for up to 12 months at -80°C. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

Proteins are shipped with blue ice.

### Protein Background

NKG2D is a type II transmembrane glycoprotein having an extracellular lectin-like domain. This domain lacks the recognizable calcium-binding sites found in true C-type lectins and binds protein rather than carbohydrate ligands. Human NKG2D is expressed on CD8 alpha beta T cells, gamma δ T cells, NK cells and NKT cells.

#### Reference

Spear P, et al. NKG2D CAR T-cell therapy inhibits the growth of NKG2D ligand heterogeneous tumors[J]. Immunology and Cell Biology, 2013, 91(6):435-440.

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