

NKG2D/CD314 Protein, Mouse, Recombinant (aa 87-219, His)

General Information

Synonyms:	D6H12S2489E;Klrk1;Nkg2d;NKG2-D
Protein Construction:	A DNA sequence encoding the Mouse KLRK1 (NP_001076791.1) (Asn87-Val219) was expressed, with a polyhistidine tag at the N-terminus.
Species:	Mouse
Expression Host:	Baculovirus Insect Cells
Accession:	O54709
Molecular Weight:	16.6 kDa (predicted); 24 kDa and 21 kDa (reducing condition, due to glycosylation)

QC Testing

Biological Activity:	Immobilized Recombinant Mouse NKG2D Protein (ECD, His Tag) at 2 µg/mL (100 µL/well) can bind Recombinant Human ULBP1/RAET1/N2DL1 Protein (His & Fc Tag), the EC50 is 8-24 ng/mL.
Purity:	≥ 95% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from sterile PBS, pH 7.4. Please contact us for any concerns or special requirements. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hardcopy of datasheet or the lot-specific COA.

Preparation and Storage

Reconstitution:	Reconstituted with sterile deionized water to 0.25 mg/mL. Reconstitution conditions may vary depending on the lot.
Stability & Storage:	It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots. <small>Actual storage temperature shall be subject to the COA.</small>
Shipping:	In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

KLRK1 (Killer Cell Lectin Like Receptor K1) is a Protein Coding gene. NKG2D, also known as CD314, is an immune receptor that consists of two disulfide-linked type II transmembrane proteins with short intracellular proteins incapable to transduce signals. To transduce signals, NKG2D needs adaptor proteins and it uses two adaptor

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proteins, DAP10 and DAP12. These two adaptor proteins associate as homodimers to NKG2D- therefore the entire receptor complex appears as a hexamer. NKG2D can send co-stimulatory signals to activate CD8 T cells. NKG2D also plays an important role in viral control. Cellular stress can induce ligands for NKG2D which results in the cell susceptible to NK cell-mediated lysis.

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