

NKG2D/CD314 Protein, Mouse, Recombinant (aa 90-232, His)

General Information

Synonyms:	D6H12S2489E;NKG2-D;Klrk1;Nkg2d
Protein Construction:	Phe90-Val232
Species:	Mouse
Expression Host:	HEK293 Cells
Accession:	O54709-1
Molecular Weight:	17.5 kDa (Predicted); 24-35 kDa (Due to glycosylation)

QC Testing

Biological Activity:	Immobilized Mouse NKG2D, His Tag at 1 µg/ml (100 µl/well) on the plate. Dose response curve for Human MICA, hFc Tag with the EC50 of 0.39 µg/ml determined by ELISA.
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:	Lyophilized from 0.22 µm filtered solution in 20 mM Tris, 250 mM NaCl (pH 8.0). Normally 8% trehalose is added as protectant before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 µg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

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.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry 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.

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