

NKG2A/CD159a Protein, Human, Recombinant (hFc)

General Information

Synonyms:	NKG2A;NKG2;killer cell lectin-like receptor subfamily C, member 1;CD159A
Protein Construction:	Arg100-Ala219
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P26715-1
Molecular Weight:	41.1 kDa (Predicted); 55-70 kDa (Due to glycosylation)

QC Testing

Biological Activity:	Immobilized Human NKG2A, hFc Tag at 2 µg/ml (100 µl/well) on Fc Antibody (2 µg/ml) precoated plate. Dose response curve for Biotinylated Anti-NKG2A Antibody, hFc Tag with the EC50 of 37.1 ng/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 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled 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:

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.

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

NKG2, also known as NKG2A(CD159A), is a member of the killer cell lectin-like receptor family. NKG2A marks a unique immune effector subset preferentially co-expressing the tissue-resident CD103 molecule, but not immune checkpoint inhibitors. It is expressed only in NK-cells, but not in T-cells or B-cells.

Reference

Angelini DF, et al. (2011) NKG2A inhibits NKG2C effector functions of gamma delta T cells: implications in health and disease. *J Leukoc Biol.* 89(1):75-84.

Ge SJ, et al. (2011) Expression of NKG2D and NKG2A with their ligands MHC-I A/B and HLA-E in acute leukemia patients and its significance. *Zhongguo Shi Yan Xue Ye Xue Za Zhi.* 19(2):312-6.

Ablamunits V, et al. (2011) NKG2A is a marker for acquisition of regulatory function by human CD8+ T cells activated with anti-CD3 antibody. *Eur J Immunol.* 41(7):1832-42.

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