

KIR3DL3 Protein, Human, Recombinant (His & Avi)

General Information

Synonyms:	KIR3DL3;KIR44;KIR2DS2;KIRC1;CD158Z;KIR3DL7
Protein Construction:	Glu26-Leu322
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q8N743
Molecular Weight:	35.3 kDa (predicted). Due to glycosylation, the protein migrates to 48-52 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Human B7-H7, hFc Tag captured on CM5 Chip via Protein A can bind Human KIR3DL3, His Tag with an affinity constant of 334 nM as determined in SPR assay.
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 a solution filtered through a 0.22 µm filter, containing 20 mM Tris, 150 mM NaCl, 0.2M L-arginine (pH 8.2). Typically, 8% trehalose is incorporated as a protective agent 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

Killer-cell immunoglobulin-like receptor (KIR) 3DL3 is a framework gene present in all human KIR haplotypes. KIR3DL3 has been shown to be constitutively expressed at a low RNA level in peripheral blood mononuclear cell (PBMC) and decidual natural kill (NK) cells.

Reference

Jones DC, et al. Allele-specific recognition by LILRB3 and LILRA6 of a cytokeratin 8-associated ligand on necrotic glandular epithelial cells. *Oncotarget*. 2016 Mar 29;7(13):15618-3doi: 10.18632/oncotarget.6905. PMID: 26769854; PMCID: PMC4941265.

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