Human KIR3DL2 Protein, Fc Tag (MALS verified)

Catalog # KI2-H5253

Synonyms

3DL2, CD158K, KIR-3DL2, NKAT-4, NKAT4, NKAT4B, p140

Source

Human KIR3DL2 Protein, Fc Tag (KI2-H5253) is expressed from human 293 cells (HEK293). It contains AA Leu 22 - His 340 (Accession # P43630-1).

Predicted N-terminus: Leu 22

Molecular Characterization



This protein carries a human IgG1 Fc tag at the C-terminus.

The protein has a calculated MW of 61.4 kDa. The protein migrates as 43-53 kDa and 75-95 kDa when calibrated against Star Ribbon Pre-stained Protein Marker under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per μg by the LAL method / rFC method.

Purity

>90% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

Formulation

Lyophilized from 0.22 μm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Shipping and Storage

This product is shipped at ambient temperature.

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

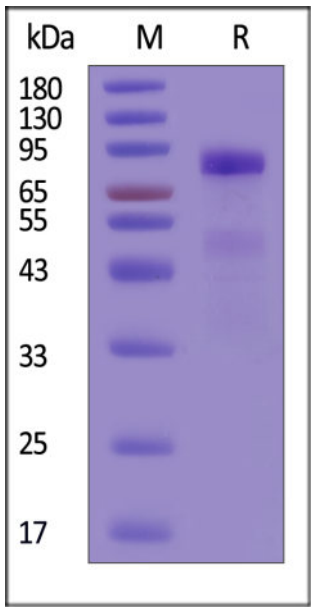
This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

ACRO Quality Management System

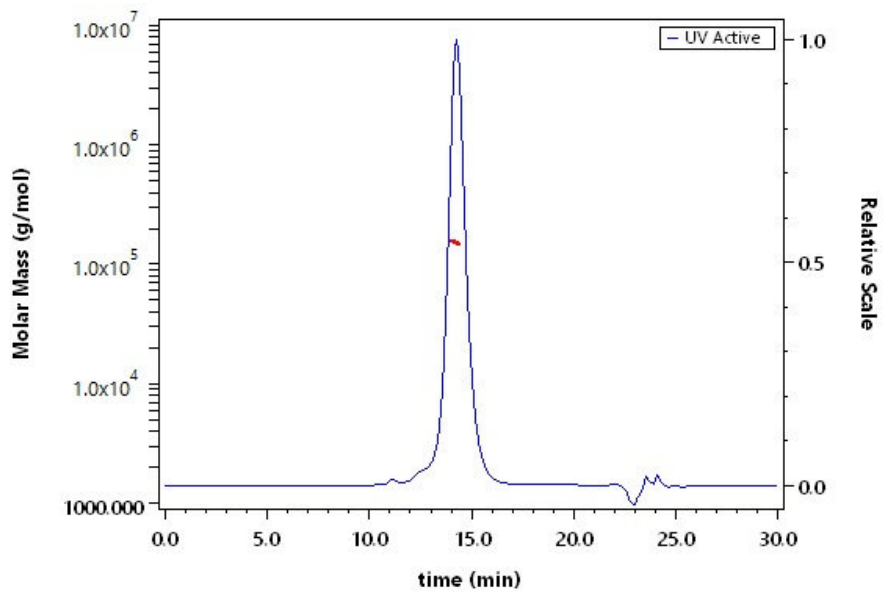
- QMS(ISO, GMP)
- Quality Advantages
- Quality Control Process

SDS-PAGE



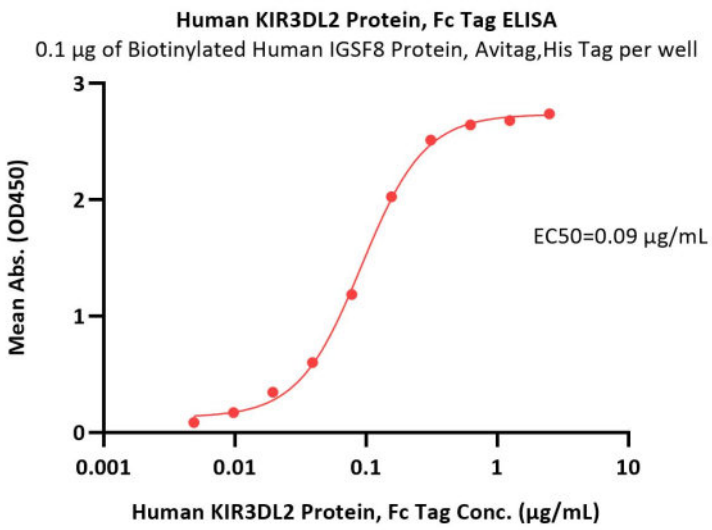
Human KIR3DL2 Protein, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With Star Ribbon Pre-stained Protein Marker).

SEC-MALS



The purity of Human KIR3DL2 Protein, Fc Tag (Cat. No. KI2-H5253) is more than 90% and the molecular weight of this protein is around 130-165 kDa verified by SEC-MALS.

Activity-ELISA



Immobilized Biotinylated Human IGSF8 Protein, Avitag,His Tag (Cat. No. IG8-H82Q3) at 1 μg/mL (100 μL/well) on streptavidin (Cat. No. STN-N5116) precoated (0.5 μg/well) plate can bind Human KIR3DL2 Protein, Fc Tag (Cat. No. KI2-H5253) with a linear range of 0.005-0.313 μg/mL (QC tested).

Background

KIR3DL2 (CD158k) is a member of the killer cell immunoglobulin-like receptor (KIR) family. It is encoded by a framework gene located within the KIR gene cluster on chromosome 19q13.4, present in all haplotypes. KIRs are transmembrane glycoproteins expressed on NK cells and T-cell subsets; they are classified by extracellular Ig domain number (2D or 3D) and cytoplasmic tail length (long L or short S). KIR3DL2 has three Ig domains and a long cytoplasmic tail bearing two ITIMs, which transduce inhibitory signals upon ligand binding. Its classical ligands include HLA-A03, HLA-A11, and HLA-B*27 homodimers. In addition, KIR3DL2 binds IGSF8 on tumor cells independently of HLA, suppressing NK cytotoxicity and promoting immune evasion. Aberrant KIR3DL2 expression is a hallmark of Sézary syndrome and is linked to ankylosing spondylitis and CTCL.

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