

**Synonym**

CD158b2

**Source**

Human KIR2DL3, Fc Tag (KI3-H5258) is expressed from human 293 cells (HEK293). It contains AA His 22 - His 245 (Accession # [P43628-1](#)).

Predicted N-terminus: His 22

**Molecular Characterization**

KIR2DL3(His 22 - His 245) P43628-1	Fc(Pro 100 - Lys 330) P01857
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This protein carries a human IgG1 Fc tag at the C-terminus.

The protein has a calculated MW of 51.0 kDa. The protein migrates as 65-70 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

**Endotoxin**

Less than 1.0 EU per µg by the LAL method.

**Purity**

>95% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

**Formulation**

Lyophilized from 0.22 µm filtered solution in 51 mM Tris, 100 mM Glycine, 25 mM Arginine, 150 mM NaCl, pH7.5. Normally trehalose is added as protectant before lyophilization.

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.*

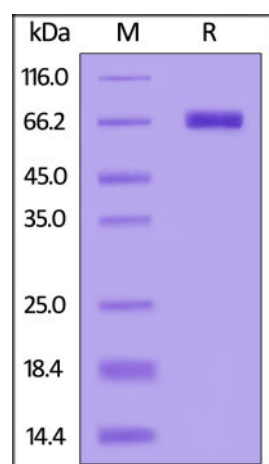
**Storage**

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

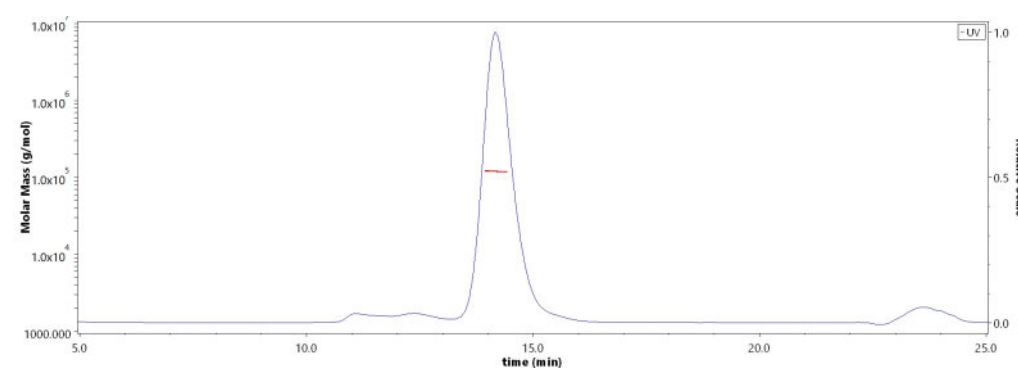
*Please avoid repeated freeze-thaw cycles.*

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.

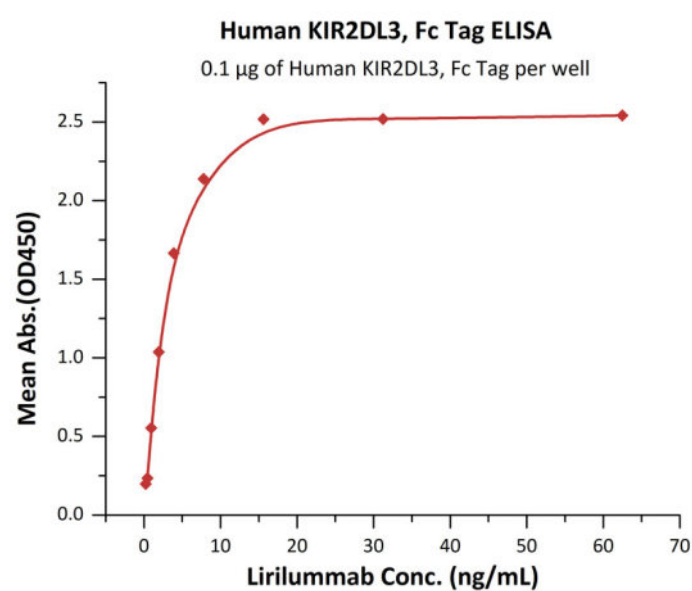
**SDS-PAGE**

Human KIR2DL3, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

**Bioactivity-ELISA****SEC-MALS**

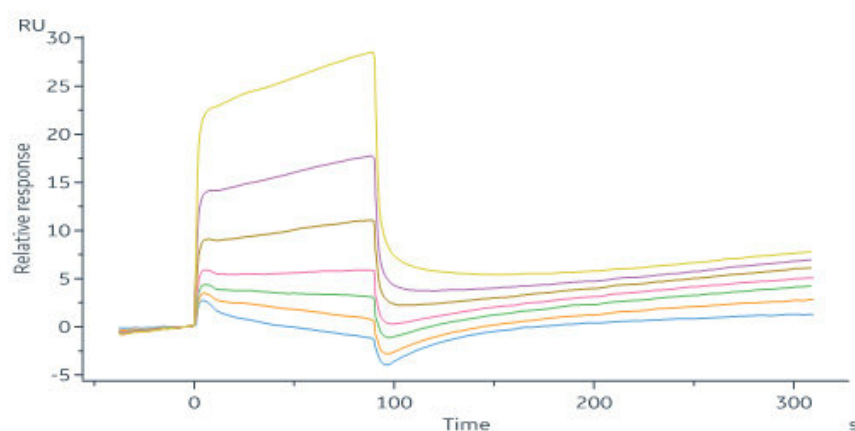
The purity of Human KIR2DL3, Fc Tag (Cat. No. KI3-H5258) is more than 90% and the molecular weight of this protein is around 108-132 kDa verified by SEC-MALS.

[Report](#)



Immobilized Human KIR2DL3, Fc Tag (Cat. No. [KI3-H5258](#)) at 1 µg/mL (100 µL/well) can bind Lirilumab with a linear range of 0.2-8 ng/mL (QC tested).

### Bioactivity-SPR



Biotinylated Human HLA-C\*07:02:01 & B2M & RYR ,His,Avitag™&Tag Free (Cat. No. HLR-H52W2) immobilized on SA Chip can bind Human KIR2DL3, Fc Tag (Cat. No. KI3-H5258) with an affinity constant of 2.40 µM as determined in a SPR assay (Biacore 8K) (Routinely tested)

### Background

Killer cell immunoglobulin-like receptor 2DL3 (KIR2DL3) is also known as CD158 antigen-like family member B2, KIR-023GB, Killer inhibitory receptor cl 2-3, MHC class I NK cell receptor, NKAT2a, NKAT2b, Natural killer-associated transcript 2, p58 natural killer cell receptor clone CL-6, p58.2 MHC class-I-specific NK receptor, CD158b2 and KIR2DL3, which is a single-pass type I membrane protein and belongs to the immunoglobulin superfamily. KIR2DL3 is a receptor on natural killer (NK) cells for HLA-C alleles (HLA-Cw1, HLA-Cw3 and HLA-Cw7). KIR2DL3 can inhibit the activity of NK cells thus preventing cell lysis.

### Clinical and Translational Updates

Please contact us via [TechSupport@acrobiosystems.com](mailto:TechSupport@acrobiosystems.com) if you have any question on this product.