

**Synonym**

CD158d

Source

Human KIR2DL4, Fc Tag(KI4-H5255) is expressed from human 293 cells (HEK293). It contains AA His 24 - His 242 (Accession # [Q99706-1](#)).

Predicted N-terminus: His 24

Molecular Characterization

KIR2DL4(His 24 - His 242) Q99706-1	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 50.5 kDa. The protein migrates as 55-60 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per µg by the LAL method.

Purity

>90% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 µm filtered solution in 50 mM Tris, 100 mM Glycine, 25 mM Arginine, 150 mM NaCl, pH7.5 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.

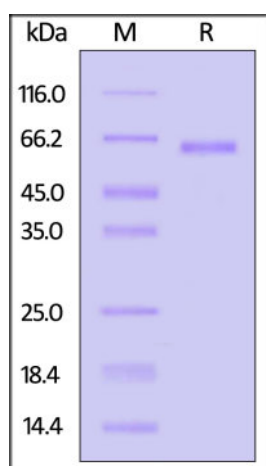
Storage

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.

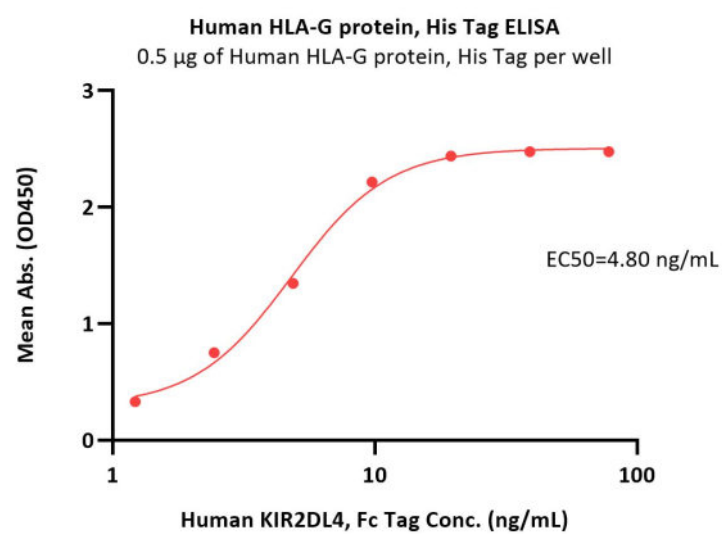
SDS-PAGE

Human KIR2DL4, 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%.

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Immobilized Human HLA-G protein, His Tag (Cat. No. HLG-H51H3) at 5 µg/mL (100 µL/well) can bind Human KIR2DL4, Fc Tag (Cat. No. KI4-H5255) with a linear range of 1-10 ng/mL (Routinely tested).

Background

Killer cell immunoglobulin-like receptor 2DL4(KIR2DL4), which belongs to the immunoglobulin superfamily, is an inhibitory receptor of NK cells. Soluble HLA-G binds to KIR2DL4 in endosomes and activates the pathway of DNA-PKcs (DNA-dependent protein kinase, catalytic subunit)-AKT-NF-κB signals. The stimulation of the ITIM of KIR2DL4 protein brings about the recruitment and activation of non-receptor protein phosphatases Src homology 2 domain-containing tyrosine phosphatase (SHP)-1 and SHP-2, and the following inhibition of CD16/FcγRIIIa signaling pathway in human NK cells.

Clinical and Translational Updates

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.

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