Human KIR2DL5 / CD158f Protein, Fc Tag

Catalog # KIA-H5255

Synonym

CD158f

Source

Human KIR2DL5 / CD158f Protein, Fc Tag(KIA-H5255) is expressed from human 293 cells (HEK293). It contains AA His 22 - His 240 (Accession # Q8N109-1).
Predicted N-terminus: His 22

Molecular Characterization

KIR2DL5A(His 22 - His 240) Q8N109-1	Fc(Pro 100 - Lys 330) P01857

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

The protein has a calculated MW of 50 kDa. The protein migrates as 63-70 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.

Formulation

Lyophilized from 0.22 μm filtered solution in 50 mM Tris,100 mM Glycine,25 mM Arg,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

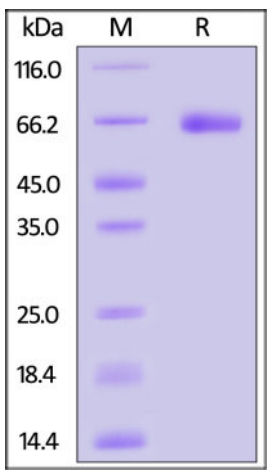
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

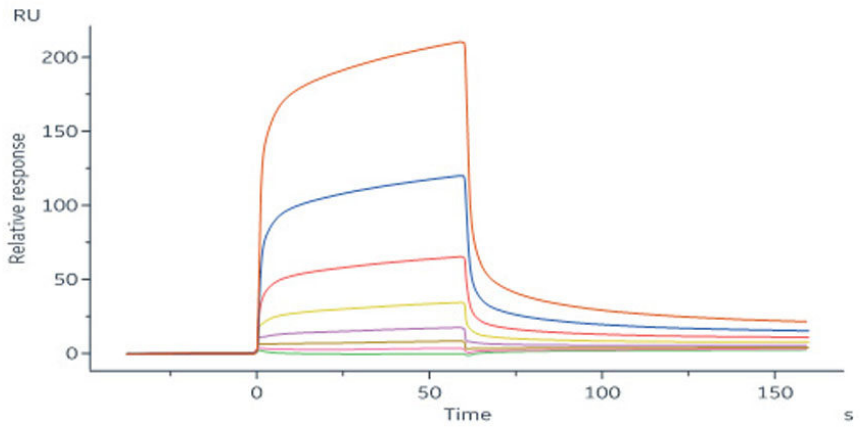
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Human KIR2DL5 / CD158f Protein, 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-SPR



Biotinylated Human HLA-G&B2M&Peptide (RIIPRHLQL) Complex Protein (Cat. No. HLM-H82E4) immobilized on CM5 Chip can bind Human KIR2DL5 / CD158f Protein, Fc Tag (Cat. No. KIA-H5255) with an affinity constant of 27.7 μM as determined in a SPR assay (Biacore 8K) (Routinely tested).

Background

Killer cell immunoglobulin-like receptor 2DL5(KIR2DL5), which belongs to the immunoglobulin superfamily, is an inhibitory receptor of NK cells. KIR2DL5 is encoded by two paralogous genes displaying copy number variation and allelic polymorphism-KIR2DL5A and KIR2DL5B that vary by only 2 aa in domain and 1 aa in signal peptide. KIR2DL5 and KIR2DL4 form a subfamily, which have longer cytoplasmic tails than other KIR, and each has one D0 and one D2-type Ig-like domain.

Clinical and Translational Updates

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