Biotinylated Human KIR3DL3 / CD158z Protein, Fc,Avitag™

Catalog # KI3-H82F3

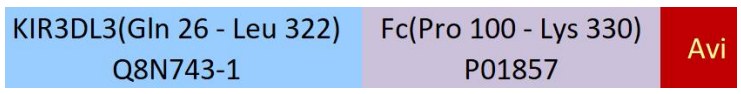
Synonym

Killer cell immunoglobulin-like receptor 3DL3,CD158 antigen-like family member Z,Killer cell inhibitory receptor 1,CD158z,KIR3DL3,KIR3DL7,KIRC1

Source

Biotinylated Human KIR3DL3 / CD158z Protein, Fc,Avitag(KI3-H82F3) is expressed from human 293 cells (HEK293). It contains AA Gln 26 - Leu 322 (Accession # Q8N743-1).
Predicted N-terminus: Gln 26

Molecular Characterization



This protein carries a human IgG1 Fc tag at the C-terminus, followed by an Avi tag (Avitag™).

The protein has a calculated MW of 60.4 kDa. The protein migrates as 66-80 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Labeling

Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.

Protein Ratio

Passed as determined by the HABA assay / binding ELISA.

Purity

>90% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 μm filtered solution in PBS, pH7.4, 25mM Arginine 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

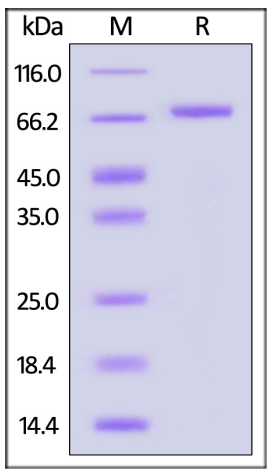
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

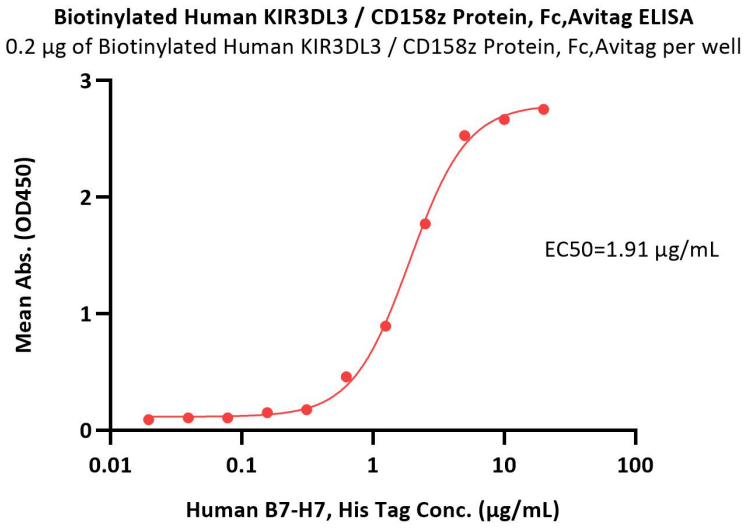
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Biotinylated Human KIR3DL3 / CD158z Protein, Fc,Avitag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%.

Bioactivity-ELISA



Immobilized Biotinylated Human KIR3DL3 / CD158z Protein, Fc,Avitag (Cat. No. KI3-H82F3) at 2 μg/mL (100 μL/well) on streptavidin (Cat. No. STN-N5116) precoated (0.5 μg/well) plate can bind Human B7-H7, His Tag (Cat. No. B77-H52H6) with a linear range of 0.02-5 μg/mL (QC tested).

Background

KIR3DL3 (Killer Cell Immunoglobulin Like Receptor) is the inhibitory KIR surface receptors possessing three extracellular immunoglobin (Ig) domains (3D) and only one inhibitory motif within the long cytoplasmic domain (L) due to a premature stop codon. Moreover, exon 6 of KIR3DL3 encoding the stem part of the receptor is also absent, which differs from other inhibitory KIRs. Understanding the function of KIR3DL3 is further complicated by the unknown identity of the specific ligand, but its importance is highlighted by its presence in all human KIR haplotypes with
120 distinct polymorphic alleles of the coding sequence.