

Biotinylated Human KIR2DL4 / CD158d Protein, His,Avitag™

Catalog # KI4-H82E3



BIOSYSTEMS
Acro

Synonyms

CD158d

Source

Biotinylated Human KIR2DL4 Protein, His,Avitag (KI4-H82E3) 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 Structure

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

The protein has a calculated MW of 28.0 kDa. The protein migrates as 38-43 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) 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 SABA assay / HABA assay / binding ELISA.

Endotoxin

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

Purity

>90% as determined by SDS-PAGE.

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.

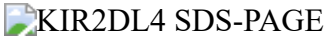
This product is stable after storage at:

- -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



Biotinylated Human KIR2DL4 Protein, His,Avitag 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](#)).

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.



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