

Human KIR2DL1 Protein

Cat. No. KIR-HM4L1

Description

Source	Recombinant Human KIR2DL1 Protein is expressed from Expi293 with His tag and Avi tag at the C-terminal. It contains His22-Arg242.
Accession	P43626
Molecular Weight	The protein has a predicted MW of 27.1 kDa. Due to glycosylation, the protein migrates to 40-52 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

Formulation and Storage

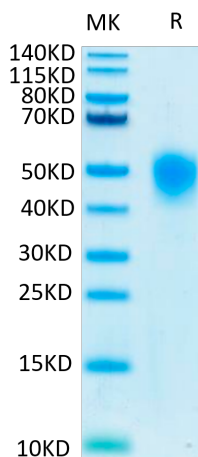
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 5% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge tubes before opening. Reconstituting to a concentration more than 100 µg/ml is recommended (usually we use 1mg/ml solution for lyophilization). Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -20 to -80°C for 3-6 months in unopened state after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please avoid freeze-thaw cycles.

Background

KIR2DL1 (2DL1, formerly NKAT1, designated CD158a) is a 348 amino acid (aa) type I transmembrane glycoprotein that belongs to the human killer cell Ig-like receptor (KIR) family. KIR2DL1 is a receptor on natural killer (NK) cells for some HLA-C alleles such as w4 and w6. Inhibits the activity of NK cells thus preventing cell lysis.

Assay Data

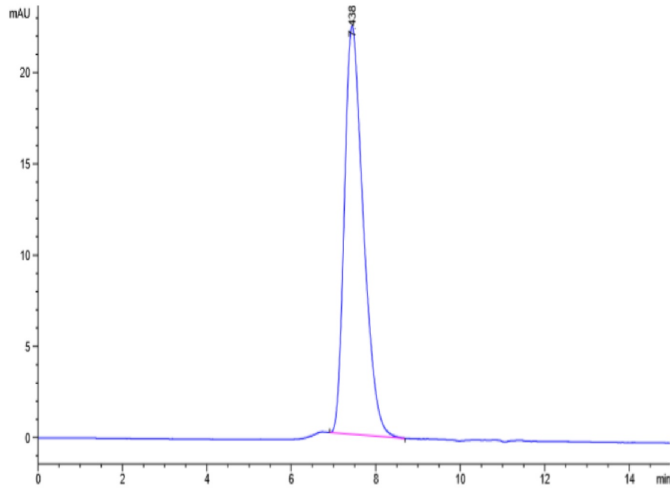
Tris-Bis PAGE



Human KIR2DL1 on Tris-Bis PAGE under reduced conditions. The purity is greater than 95%.

SEC-HPLC

Assay Data



The purity of Human KIR2DL1 is greater than 95% as determined by SEC-HPLC.