

# Human KIR2DL3 Protein

Cat. No. KIR-HM4L3

## Description

<b>Source</b>	Recombinant Human KIR2DL3 Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus. It contains His22-His245.
<b>Accession</b>	P43628
<b>Molecular Weight</b>	The protein has a predicted MW of 27.3 kDa. Due to glycosylation, the protein migrates to 45-52 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

## Formulation and Storage

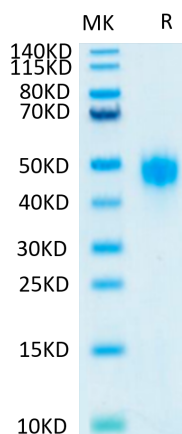
<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

KIR2DL3 (2DL3, formerly NKAT2, designated CD158b2) is a 341 amino acid (aa) type I transmembrane glycoprotein that belongs to the human killer cell Iglike receptor (KIR) family of molecules. KIRs are expressed on human CD56dim NK cells and T cell subsets, and regulate effector functions in the innate immune system. KIR2DL3 is a receptor on natural killer (NK) cells for HLA-C alleles (HLA-Cw1, HLA-Cw3 and HLA-Cw7). Inhibits the activity of NK cells thus preventing cell lysis.

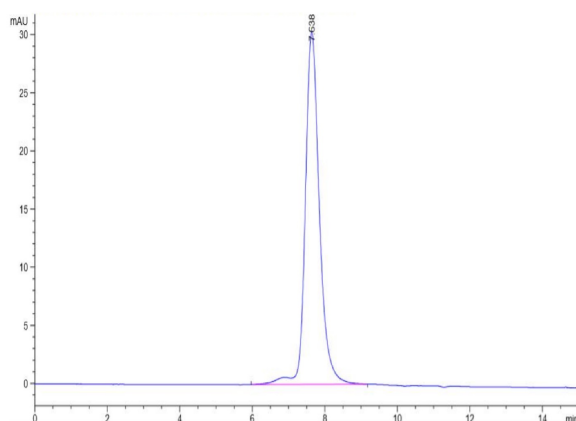
## Assay Data

### Bis-Tris PAGE



Human KIR2DL3 on Bis-Tris PAGE under reduced conditions. The purity is greater than 95%.

### SEC-HPLC



The purity of Human KIR2DL3 is greater than 95% as determined by SEC-HPLC.