

Active Recombinant Human Killer Cell Immunoglobulin-Like Receptor, Two Domains, Long Cytoplasmic Tail, 5A, Fc-tagged

Cat. No. KIR2DL5A-5668H **Lot. No.** (See product label)

SPECIFICATION

Product Overview Recombinant Human KIR2DL5A protein was expressed in Murine myeloma cell line with the Fc part of Human IgG1 Pro100-Lys330 (C-terminus) and Human KIR2DL5A His22- His240 (N-terminus).

Species Human

Source Mammalian Cells

Description KIR2DL5A is a 60 kDa type I transmembrane glycoprotein that belongs to the killer cell Ig-like receptor (KIR) family. KIRs are expressed on CD56 dim NK cells and T cell subsets where they regulate effector functions in the innate immune system. KIRs are named for the number of Ig-like domains (2D or 3D) in the extracellular domain (ECD), and whether they have long or short (L, S) cytoplasmic tails. Like other inhibiting KIRs, KIR2DL5A has two ITIM domains within its long tail however, one of these is atypical and may cause KIR2DL5 to be less inhibitory than most inhibiting KIRs.

Form Lyophilized from a 0.2 µm filtered solution in PBS.

N-terminal Sequence His22

Molecular Weight 50.1 kDa (monomer)

Activity Measured by its ability to bind HLA on MDA-MB-231 human breast adenocarcinoma cells. The ED₅₀ for this effect is typically 0.9-3.6 µg/mL.

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Endotoxin Level	<1.0EU per 1µg of the protein by the LAL method.
SDS-PAGE	66 kDa, reducing conditions.
Purity	>95%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Reconstitution	300 µg/mL in PBS
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70°C as supplied. 1 month, 2 to 8°C under sterile conditions after reconstitution. 3 months, -20 to -70°C under sterile conditions after reconstitution.

GENE INFORMATION

Gene Name	KIR2DL5A killer cell immunoglobulin-like receptor, two domains, long cytoplasmic tail, 5A [Homosapiens]
Official Symbol	KIR2DL5A
Synonyms	KIR2DL5A; killer cell immunoglobulin-like receptor, two domains, long cytoplasmic tail, 5A; CD158F; KIR2DL5; KIR2DL5B; KIR2DL5.1; KIR2DL5.3; killer cell immunoglobulin-like receptor 2DL5A; killer-cell Ig-like receptor; killer cell immunoglobulin-like receptor KIR2DL5A; killer cell immunoglobulin-like receptor, two domains, long cytoplasmic tail, 5; CD158f1; CD158F1
Gene ID	57292
mRNA Refseq	NM_020535
Protein Refseq	NP_065396

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MIM	605305
UniProt ID	Q8N109
Chromosome Location	19q13.4
Pathway	Antigen processing and presentation; Graft-versus-host disease; Natural killer cell mediated cytotoxicity
Function	receptor activity

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