

Active Recombinant Human Killer Cell Immunoglobulin-Like Receptor, Three Domains, Short Cytoplasmic Tail, 1, Fc-tagged

Cat. No. KIR3DS1-5670H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human KIR3DS1 protein was expressed in Chinese Hamster Ovary cell line with the Fc part of Human IgG1 Pro100-Lys330 (C-terminus) and Human KIR3DS1 His22-His340 (N-terminus).
Species	Human
Source	CHO
Protein Length	22-340 a.a.
Description	KIR3DS1 (3DS1, CD158e2) is a type I transmembrane protein 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 differentiate normal from abnormal cells, and 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 activating KIRs, KIR3DS1 has a short cytoplasmic tail and a positively charged amino acid (aa) within the transmembrane domain that interacts with the ITAM-bearing signaling adaptor, DAP12.
Form	Lyophilized from a 0.2 µm filtered solution in PBS.
N-terminal Sequence	His22
Molecular Weight	61.9 kDa (monomer)

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Activity	Measured by its ability to bind MDA-MB-231 human breast adenocarcinoma cells in a flow cytometry assay. A 200-500 fold increase in fluorescence intensity can be observed when MDA-MB-231 cells are stained with 3 µg/mL rhKIR3DS1/Fc Chimera and goat anti-human Fc-PE as compared to cells stained with goat anti-human Fc-PE.
Endotoxin Level	<1.0 EU per 1 µg of the protein by the LAL method.
SDS-PAGE	75-90 kDa, reducing conditions.
Purity	>90%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Reconstitution	100 µg/mL in sterile 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	KIR3DS1 killer cell immunoglobulin-like receptor, three domains, short cytoplasmic tail, 1 [<i>Homo sapiens</i>]
Official Symbol	KIR3DS1
Synonyms	KIR3DS1; killer cell immunoglobulin-like receptor, three domains, short cytoplasmic tail, 1; KIR-G1; NKAT10; CD158E2; KIR-123FM; killer cell immunoglobulin-like receptor 3DS1; NKAT-10; killer Ig receptor; MHC class I NK cell receptor; natural killer-associated transcript 10; killer cell immunoglobulin-like receptor KIR3DS1
Gene ID	3813

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mRNA Refseq	NM_001083539
Protein Refseq	NP_001077008
UniProt ID	Q14943
Chromosome Location	19q13.4
Function	MHC class I receptor activity ; receptoractivity

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