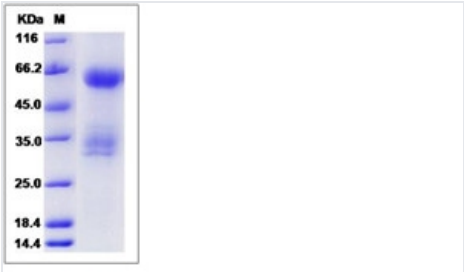
KIR2DL4 Recombinant Protein

PRODUCT OVERVIEW

Product Name	KIR2DL4, Recombinant Protein
Full Product Name	KIR2DL4 Protein, Human, Recombinant (hFc Tag)
Product Gene Name	KIR2DL4 recombinant protein
Product Synonym Names	Human KIR2DL4/CD158D Protein (Fc Tag); CD158D Protein, Human; G9P Protein, Human; KIR Protein, Human; KIR-103AS Protein, Human; KIR-2DL4 Protein, Human; KIR103 Protein, Human; KIR103AS Protein, Human; KIR2DL4 Protein, Human; killer cell immunoglobulin like receptor, two Ig domains and long cytoplasmic tail 4
Sequence	Met1-His24 2
Host	CHO Stable Cells
Form/Format	Lyophilized from sterile PBS, pH7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hard copy of CoA.
Purity/Purification	>95% as determined by SDS-PAGE
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice.
Molecular Weight	24,917 Da
Species	Human
Endotoxin	<1.0EU per ug of the protein as determined by the LAL method
Predicted N Terminal	Trp 24
Tag	C-human IgG1-Fc
Protein Construction	A DNA sequence encoding the human KIR2DL4 (ADY38409.1)(Met1-His242) was expressed with the Fc region of human IgG1 at the C-terminus.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.
Product Categories/Family for KIR2DL4 recombinant protein	ITIM/ITAM Immunoreceptors and Related Molecules
Related Product Information for KIR2DL4 recombinant protein	Background: KIR2DL4, also known as CD158d, is a member of the killer cell Ig-like receptor (KIR) family. KIRs are transmembrane glycoproteins expressed by natural killer cells and subsets of T cells. The KIR genes are polymorphic and highly homologous. KIR2DL4 is expressed in all NK cells and some T cells. KIR2DL4 activates the cytotoxicity of NK cells, despite the presence of an immunoreceptor tyrosine-based inhibition motif (ITIM) in its cytoplasmic tail. The ITIM was not necessary for activation of lysis by KIR2DL4. The activation signal of KIR2DL4 was sensitive to inhibition by another ITIM-containing receptor. The activation-deficient mutant of KIR2DL4 inhibited the signal delivered by the activating receptor CD16.
Product References and Citations for KIR2DL4 recombinant protein	Selvakumar A. et al., 1997, Tissue Antigens. 48 (4 Pt 1): 285-94. Selvakumar A. et al., 1997, Immunol Rev. 155: 183-96. Selvakumar A. et al., 1997, Tissue Antigens. 49 (6): 564-73.
Other Notes	Small volumes of KIR2DL4 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for KIR2DL4 purchase	MBS8121252 is a recombinant protein targeting KIR2DL4. Also known as KIR2DL4 Protein, Human, Recombinant (hFc Tag). Host: CHO Stable Cells.



SDS-Page of KIR2DL4 recombinant protein

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for KIR2DL4. It may not necessarily be applicable to this product.

NCBI GI #	324387700
NCBI GeneID	3805
NCBI Accession #	ADY38409.1
UniProt Secondary Accession #	O14621; O14622; O14623; O14624; O43534; P78400; P78401; Q8N738; Q99559; Q99560; A8W795
UniProt Related Accession #	Q99706
NCBI Official Full Name	killer cell immunoglobulin-like receptor
NCBI Official Synonym Full Names	killer cell immunoglobulin like receptor, two Ig domains and long cytoplasmic tail 4
NCBI Official Symbol	KIR2DL4
NCBI Official Synonym Symbols	G9P; CD158D; KIR103; KIR-2DL4; KIR103AS; KIR-103AS
Protein Family	Killer cell immunoglobulin-like receptor
NCBI Protein Information	killer cell immunoglobulin-like receptor 2DL4
NCBI Summary for KIR2DL4	Killer cell immunoglobulin-like receptors (KIRs) are transmembrane glycoproteins expressed by natural killer cells and subsets of T cells. The KIR genes are polymorphic and highly homologous and they are found in a cluster on chromosome 19q13.4 within the 1 Mb leukocyte receptor complex (LRC). The gene content of the KIR gene cluster varies among haplotypes, although several "framework" genes are found in all haplotypes (KIR3DL3, KIR3DP1, KIR3DL4, KIR3DL2). The KIR proteins are classified by the number of extracellular immunoglobulin domains (2D or 3D) and by whether they have a long (L) or short (S) cytoplasmic domain. KIR proteins with the long cytoplasmic domain transduce inhibitory signals upon ligand binding via an immune tyrosine-based inhibitory motif (ITIM), while KIR proteins with the short cytoplasmic domain lack the ITIM motif and instead associate with the TYRO protein tyrosine kinase binding protein to transduce activating signals. The ligands for several KIR proteins are subsets of HLA class I molecules; thus, KIR proteins are thought to play an important role in regulation of the immune response. This gene is one of the "framework" loci that is present on all haplotypes. Alternate alleles of this gene are represented on multiple alternate reference loci (ALT_REF_LOCs). Alternative splicing results in multiple transcript variants, some of which may not be annotated on the primary reference assembly. [provided by RefSeq, Jul 2016]
Research Articles on KIR2DL4	**1.** Decreased level of KIR2DL4 rather than its single nucleotide polymorphism is correlated with the susceptibility of pre-eclampsia
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