KIR2DL1 Recombinant Protein

PRODUCT OVERVIEW

Product Name	KIR2DL1, Recombinant Protein
Full Product Name	KIR2DL1, Recombinant, Human (p58 KIR, p58.1, CD158, cl-42, KIR-K6, NKAT1, NKR-K6, Killer Cell Immunoglobulin (Ig)-like Receptor)
Product Gene Name	KIR2DL1 recombinant protein
Sequence	MEGVHRKPSL LAHPGRLVKS EETVILQCWS DVMFEHFLLH REGMFNDTLR LIGEHHDGVS KANFSISRMT QDLAGTYRCY GSVTHSPYQV SAPSDPLDIV IIGLYEKPSL SAQLGPTVLA GENVTLSCSS RSSYDMYHLS REGEAHERRL PAGPKVNGTF QADFPLGPAT HGGTYRCFGS FHDSPYEWSK SSDPLLVSVT GN
Host	E Coli
Form/Format	Supplied as a liquid in 25mM Tris-HCl, pH 7.5.
Purity/Purification	Highly Purified 95% as determined by RP-HPLC, anion-exchange FPLC and/or reducing and non-reducing SDS-PAGE Silver Stained gel.
Preparation and Storage	-20 degree C Stability: Store at 4 degree C if entire vial will be used within 2-4 weeks. Store, frozen at -20 degree C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.
Molecular Weight	22.2kD
Chromosome Location	Chromosome: 19; NC_000019.9 (55281265..55295778). Location: 19q13.4
OMIM	604936
3D Structure	ModBase 3D Structure for P43626
Product Categories/Family for KIR2DL1 recombinant protein	Molecular Biology; MB-Receptors
Related Product Information for KIR2DL1 recombinant protein	An inhibitory Killer Cell Ig-like Receptor(KIR, previously called p58 KIR, p58.1, cl-42, NKAT1, or KIR-K6), which recognizes class I MHC molecules(HLA-Cw2, -Cw4, -Cw5, and Cw6). The extracellular domain of KIR2DL1 was over expressed as insoluble protein aggregates(inclusion bodies) Recombinant KIR2DL1 produced in E.Coli is a single,non-glycosylated polypeptide chain containing amino acids 1-202 and having a molecular mass of 22.2kD.
Other Notes	Small volumes of KIR2DL1 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 KIR2DL1 purchase	MBS636295 is a recombinant protein targeting KIR2DL1. Also known as KIR2DL1, Recombinant, Human (p58 KIR, p58.1, CD158, cl-42, KIR-K6, NKAT1, NKR-K6, Killer Cell Immunoglobulin (Ig)-like Receptor). Host: E Coli.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for KIR2DL1. It may not necessarily be applicable to this product.

NCBI GI #	93359503
NCBI GeneID	3802
NCBI Accession #	ABF13296.1
UniProt Primary Accession #	P43626

UniProt Secondary Accession #	O43470; Q32WE6
UniProt Related Accession #	P43626
NCBI Official Full Name	KIR2DL1
NCBI Official Synonym Full Names	killer cell immunoglobulin-like receptor, two domains, long cytoplasmic tail, 1
NCBI Official Symbol	KIR2DL1
NCBI Official Synonym Symbols	NKAT; NKAT1; p58.1; CD158A; KIR221; KIR-K64
UniProt Protein Name	Killer cell immunoglobulin-like receptor 2DL1
UniProt Synonym Protein Names	CD158 antigen-like family member A; MHC class I NK cell receptor; Natural killer-associated transcript 1; NKAT-1; p58 natural killer cell receptor clones CL-42/47.11; p58 NK receptor CL-42/47.11; p58.1 MHC class-I-specific NK receptor
Protein Family	Killer cell immunoglobulin-like receptor
UniProt Gene Name	KIR2DL1
UniProt Synonym Gene Names	CD158A; NKAT1; NKAT-1
UniProt Entry Name	KI2L1_HUMAN
NCBI Protein Information	killer cell immunoglobulin-like receptor 2DL1; NKAT-1; killer Ig receptor; p58 NK receptor CL-42/47.11; MHC class I NK cell receptor; killer inhibitory receptor 2-2-1; CD158 antigen-like family member A; natural killer-associated transcript 1; p58 NK cell inhibitory receptor NKR-K6; p58.1 MHC class-I-specific NK receptor; p58 killer cell inhibitory receptor KIR-K64; p58 natural killer cell receptor clones CL-42/47.11
NCBI Summary for KIR2DL1	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. [provided by RefSeq, Jul 2008]
UniProt Comments for KIR2DL1	KIR2DL1: Receptor on natural killer (NK) cells for HLA-C alleles. Inhibits the activity of NK cells thus preventing cell lysis. Interacts with ARRB2. Interacts with PTPN6; the interaction is enhanced by ARRB2. Interacts with PTPN11; the interaction is enhanced by ARRB2. Belongs to the immunoglobulin superfamily. Protein type: Membrane protein, integral; Receptor, misc. Chromosomal Location of Human Ortholog: 19q13.4 Cellular Component: integral to plasma membrane; plasma membrane Molecular Function: protein binding; receptor activity Biological Process: regulation of immune response; immune response; natural killer cell inhibitory signaling pathway
Research Articles on KIR2DL1	**1.** NK cells were isolated from peripheral blood and the lysis of KG1A and K562 cells by the NK cells was analyzed to investigate whether KIR2DL1 expression on NK cells would affect the cytotoxicity.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.

Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/recombinant-protein/kir2dl1/636295