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**Product Data Sheet**


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Product Name: KIR2DL4 Human

Cat. No.: GP23746

Batch No.: 1

**Product Data**

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Killer Cell Immunoglobulin Like Receptor; Two Ig Domains And Long Cytoplasmic Tail 4; Killer Cell Immunoglobulin-Like Receptor; Two Domains; Long Cytoplasmic Tail 4; Killer Cell Inhibitory Receptor 103AS; MHC Class I NK Cell Receptor KIR103AS; CD158 Antigen-Like Family Member D; KIR-103AS; KIR103AS; CD158D; G9P; Killer Cell Immunoglobulin-Like Receptor 2DL4; CD158d Antigen; KIR-2DL4; KIR103; KIR2DL4.		
Amino Acid Sequence	HVGGQDKPFC SAWPSAVVPQ GGHVTLRCHY RRGFNIFTLY KKDGVPVPEL YNRIFWNSFL ISPVTPAHAG TYRCRGFHPH SPTIEWSAPSN PLVIMVTGLY EKPSLTARPG PTVRAGENVT LSCSSQSSFD IYHLSREGEA HELRLPAVPS INGTFQADFP LGPATHGETY RCFGSFHGPSYEWSDPSDPL PVSVTGNPSS SWPSPTEPSF KTGIARHLHL EPKSCDKTHT CPPCPAPELL GGPSVFLFPP KPKDTLMISR TPEVTCVVVD VSHEDPEVKF NWYVDGVEVH NAKTKPREEQ YNSTYRVVSV LTVLHQDWLN GKEYKCKVSN KALPAPIEKT ISKAKGQPRE PQVYTLPPSRDELTKNQVSL TCLVKGFYPS DIAVEWESNG QPENNYKTP PVLDSGDGSFF LYSKLTVDKS RWQQGNVFSC SVMHEALHNH YTQKSLSLSP GKHHHHHH		
Formulation	KIR2DL4 protein solution (0.25mg/ml) contains Phosphate buffered saline (pH7.4) and 10% glycerol.		

**Introduction**

Killer cell immunoglobulin-like receptor 2DL4, also known as KIR2DL4 is part of the killer cell Ig-like receptor (KIR) family. KIR proteins with the long cytoplasmic domain transduce inhibitory signals through an immune tyrosine-based inhibitory motif (ITIM), whereas KIR proteins which contain the short cytoplasmic domain, lack the ITIM motif

**Caution: Product has not been fully validated for medical applications. For research use only.**

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and as a substitute associate with the TYRO protein tyrosine kinase binding protein to transduce activating signals. KIR2DL4 stimulates NK cells to produce IFN-gamma and stimulation with IL-2 upregulates cell surface expression on CD56dim cells and leads to the inhibition of the cytolytic NK cell function.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°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.

### Background

KIR2DL4 Human Recombinant produced in Sf9 Insect cells is a single, glycosylated polypeptide chain containing 458 amino acids (24-242 a.a.) and having a molecular mass of 51kDa (Molecular size on SDS-PAGE will appear at approximately 50-70kDa). KIR2DL4 is expressed with a 239 amino acids hlgG-His tag at C-Terminus and purified by proprietary chromatographic techniques.

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