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**Product Data Sheet**


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Product Name: KLRK1 Human, Sf9  
 Cat. No.: GP23764  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Killer Cell Lectin Like Receptor K1; Killer Cell Lectin-Like Receptor Subfamily K; Member 1; NKG2-D-Activating NK Receptor; NK Cell Receptor D; D12S2489E; NKG2D; DNA Segment On Chromosome 12 (Unique) 2489 Expressed Sequence; Killer Cell Lectin-Like Receptor Subfamily K Member 1; NKG2-D Type II Integral Membrane Protein; CD314 Antigen; NKG2-D; CD314; KLR.		
Amino Acid Sequence	ADPIWSAVFL NSLFNQEVQI PLTESYCGPC PKNWICYKNN CYQFFDESKN WYESQASCMS QNASLLKVYS KEDQDLLKLV KSYHWMGLVH IPTNGSWQWE DGSILSPNLL TIEMQKGDC ALYASSFKGY IENCSTPNTY ICMQRTVVEP KSCDKTHTCP PCPAPELLGG PSVFLFPPKP KDTLMISRTP EVTCVVVDVS HEDPEVKFNW YVDGVEVHNA KTKPREEQYN STYRVVSVLT VLNQDQWLNGK EYKCKVSNKA LPAPIEKTIS KAKGQPREPQ VYTLPPSRDE LTKNQVSLTC LVKGFYPSDI AVEWESNGQP ENNYKTTTPV LQSDGSFFLY SKLTVDKSRW QQGNVFSCSV MHEALHNHYT QKSLSLSPGK HHHHHH.		
Formulation	KLRK1 protein solution (0.5mg/ml) contains Phosphate Buffered Saline (pH 7.4) and 10% glycerol.		

**Introduction**

Killer Cell lectin-Like Receptor Subfamily K, Member 1 (KLRK1) is an activating receptor which has recently generated considerable interest. The most fascinating of these, are a couple of closely related proteins known as MICA and MICB. These are cell-surface molecules distantly related to MHC class I proteins, and their genes have elements of heat shock promoters. Thus, MICA and MICB are expressed in the course of cell stress and are up-regulated in tumor cells and during viral infections. This receptor-ligand combination has a crucial role in the immune response to various pathologies.

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

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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### 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

KLRK1 Human Recombinant produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 386 amino acids (73-216a.a.) and having a molecular mass of 43.9kDa (Molecular size on SDS-PAGE will appear at approximately 40-57kDa). KLRK1 is expressed with a 242 amino acids hlgG-His tag at C-Terminus and purified by proprietary chromatographic techniques.

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