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## Product Data Sheet

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Product Name: KLRB1 Human, Sf9  
 Cat. No.: GP23757  
 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 B1; Natural Killer Cell Surface Protein P1A; Killer Cell Lectin-Like Receptor Subfamily B; Member 1; C-Type Lectin Domain Family 5 Member B; HNKR-P1A; NKR-P1A; CLEC5B; NKR-P1A; Killer Cell Lectin-Like Receptor Subfamily B Member 1; CD161 Antigen; NKR-P1; CD161; NKR.		
Amino Acid Sequence	ADPQKSSIEK CSVDIQQSRN KTTERPGLLN CPIYWQQLRE KCLLFSHTVN PWNNSLADCS TKESSLLLIR DKDELIHTQN LIRDKAILFW IGLNFSLSEK NWKWINGSFL NSNDLEIRGD AKENSCISIS QTSVYSEYCS TEIRWICQKE LTPVRNKVYP DSLEPKSCDK THTCPPCPAPPELLGGPSVFL FPPKPKDTLM ISRTPEVTCV VVDVSHEDPE VKFNWYVDGV EVHNAKTKPR EEQYNSTYRV VSVLTVLHQD WLNGKEYKCK VSNKALPAPI EKTISKAKGQ PREPQVYTLF PSRDELTKNQ VSLTCLVKGF YPSDIAVEWE SNGQPENNYK TTPPVLDSDG SFFLYSKLTVDKSRWQQGNV FSCSVMHEAL HNHYTQKSL S LSPGKHHHHH H.		
Formulation	KLRB1 protein solution (0.25mg/ml) contains Phosphate Buffered Saline (pH 7.4) and 10% glycerol.		

### Introduction

KLRB1 has an inhibitory role on natural killer (NK) cells cytotoxicity which are lymphocytes who facilitate cytotoxicity and secrete cytokines subsequent to immune stimulation. Some genes of the C-type lectin superfamily, like the rodent NKR-P1 family of glycoproteins, are expressed by NK cells and take part in NK cell function regulation. KLRB1 holds an extracellular domain with a few characteristic motifs of C-type lectins, a transmembrane domain, and a cytoplasmic domain. Due to its external C terminus KLRB1 is considered to be a type II membrane protein.

### Stability

**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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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

KLRB1 produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 401 amino acids (67-225a.a.) and having a molecular mass of 45.7kDa. (Molecular size on SDS-PAGE will appear at approximately 40-57kDa). KLRB1 is expressed with a 242 amino acid hIgG-His-tag at C-Terminus and purified by proprietary chromatographic techniques.

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