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## Product Data Sheet

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Product Name: KLRB1 Human  
 Cat. No.: GP23756  
 Batch No.: 1

### Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Killer cell lectin-like receptor subfamily B member 1; Natural killer cell surface protein P1A; C-type lectin domain family 5 member B; CD161 antigen; HNKR-P1a; CLEC5B; NKR; NKR-P1.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMQKSSIE KCSVDIQQSR NKTERPGLL NCPYWQQLR EKCLLSHTV NPWNNSLADC STKESLLLI RDKDELIHTQ NLIRDKAILF WIGLNFLSE KNWKWINGSF LNSNDLEIRG DAKENSCISI SQTSVYSEYC STEIRWICQK ELTPVRNKVY PDS		
Formulation	The KLRB1 solution (1mg/1ml) contains 20mM Tris-HCl buffer (pH 8.0), 4M urea 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 NKRP1 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

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 Human Recombinant produced in E. coli is a single polypeptide chain containing

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

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183 amino acids (67-225) and having a molecular mass of 21.0 kDa. KLRB1 is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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