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## Product Data Sheet

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Product Name: KLRK1 Human  
 Cat. No.: GP23763  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	CD314; D12S2489E; KLR; NKG2-D; NKG2D; Killer cell lectin-like receptor subfamily K member 1; NK cell receptor D; NKG2-D-activating NK receptor; CD314.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMIWSAVF LNSLFNQEVQ IPLTESYCGP CPKNWICYKN NCYQFFDESK NWYESQASCM SQNASLLKVY SKEDQDLLKL VKSYHWMGLV HIPTNGSWQW EDGSILSPNL LTIEMQKGD CALYASSFKG YIENCSTPNT YICMQRTV.		
Formulation	KLRK1 protein solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH8.0), 10% glycerol and 0.4M Urea.		

### 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.

### 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 E.Coli is a single, non-glycosylated polypeptide

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

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

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chain containing 168 amino acids (73-216 a.a.) and having a molecular mass of 19.2kDa. KLRK1 is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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