

# Recombinant Human killer cell lectin-like receptor subfamily K, member 1, His-tagged

**Cat. No.** KLRK1-379H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | KLRK1, 73-216 aa, Human, His tag, E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>ProteinLength</b>    | 73-216 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Description</b>      | <p>KLRK1 is an activating receptor that has recently generated considerable interest. The most intriguing of these are a pair of closely related proteins called MICA and MICB. These are cell-surface molecules distantly related to MHC class I proteins, and the genes possess elements of heat shock promoters. MICA and MICB, therefore, are expressed during cell stress and are up-regulated in tumor cells and during viral infections. This receptor-ligand combination may play a critical role in the immune response to a variety of pathologies. Recombinant human KLRK1 protein, fused to His-tag at N-terminus, was expressed in E.coli.</p> |
| <b>Form</b>             | Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol 0.4M Urea                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Molecular Mass</b>   | 19.2 kDa(168aa)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>AA Sequence</b>      | <p>MGSSHHHHHH SSGLVPRGSH MGSMIWSAVF LNSLFNQEVQ IPLTESYCGP<br/> CPKNWICYKN NCYQFFDESK NWEYSQASCM SQNASLLKVY SKEDQDLLKL<br/> VKSYPHWMGLV HIPTNGSWQW EDGSILSPNL LTIEMQKGD CALYASSFKG</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

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|                            |                                                                                                                                                                                                                                                                                                         |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                            | YIENCSTPNT YICMQRTV                                                                                                                                                                                                                                                                                     |
| <b>Purity</b>              | >90% by SDS - PAGE                                                                                                                                                                                                                                                                                      |
| <b>Storage</b>             | Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.                                                                                                                                                      |
| <b>Concentration</b>       | 0.5 mg/ml (determined by Bradford assay)                                                                                                                                                                                                                                                                |
| <b>GENE INFORMATION</b>    |                                                                                                                                                                                                                                                                                                         |
| <b>Gene Name</b>           | KLRK1 killer cell lectin-like receptor subfamily K, member 1 [ Homo sapiens ]                                                                                                                                                                                                                           |
| <b>Official Symbol</b>     | KLRK1                                                                                                                                                                                                                                                                                                   |
| <b>Synonyms</b>            | KLRK1; killer cell lectin-like receptor subfamily K, member 1; D12S2489E, DNA segment on chromosome 12 (unique) 2489 expressed sequence; NKG2-D type II integral membrane protein; CD314; KLR; NKG2 D; NKG2D; NK cell receptor D; NKG2-D-activating NK receptor; NKG2-D; D12S2489E; FLJ17759; FLJ75772; |
| <b>Gene ID</b>             | 22914                                                                                                                                                                                                                                                                                                   |
| <b>mRNA Refseq</b>         | NM_007360                                                                                                                                                                                                                                                                                               |
| <b>Protein Refseq</b>      | NP_031386                                                                                                                                                                                                                                                                                               |
| <b>MIM</b>                 | 611817                                                                                                                                                                                                                                                                                                  |
| <b>UniProt ID</b>          | P26718                                                                                                                                                                                                                                                                                                  |
| <b>Chromosome Location</b> | 12p13.2-p12.3                                                                                                                                                                                                                                                                                           |

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**Pathway**

Adaptive Immune System, organism-specific biosystem; Immune System, organism-specific biosystem; Immunoregulatory interactions between a Lymphoid and a non-Lymphoid cell, organism-specific biosystem; Malaria, organism-specific biosystem; Malaria, conserved biosystem; Natural killer cell mediated cytotoxicity, organism-specific biosystem; Natural killer cell mediated cytotoxicity, conserved biosystem;

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