

Active Recombinant Human KLRK1 Protein, His-tagged

Cat. No. KLRK1-1493H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human KLRK1(Phe78-Val216) fused with His tag at N-terminal was expressed in Insect cells.
Species	Human
Source	Insect Cells
ProteinLength	Phe78-Val216
Description	NKG2D, also known as CD314, is an immune receptor which consists of two disulphide-linked type II transmembrane proteins with short intracellular proteins incapable to transduce signals. In order to transduce signals, NKG2D needs adaptor proteins and it uses two adaptor proteins, DAP10 and DAP12. These two adaptor proteins associate as homodimers to NKG2D- therefore the entire receptor complex appears as a hexamer. NKG2D can send co-stimulatory signals to activate CD8 T cells. NKG2D also plays an important role in viral control. Cellular stress can induce ligands for NKG2D which results in the cell susceptible to NK cell-mediated lysis.
Predicted N Terminal	His
Form	Lyophilized from sterile 20mM Tris, 500mM NaCl, pH 8.0, 10% gly 1. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA.

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Bio-activity	1. Immobilized human His-NKG2D at 10 µg/ml (100 µl/well) can bind human ULBP1-Fch, The EC50 of human ULBP1-Fch is 0.04-0.08 µg/ml. 2. Immobilized human His-NKG2D at 10 µg/ml (100 µl/well) can bind human MICB-Fch, The EC50 of human MICB-Fch is 15.9-37.1 ng/ml.
Molecular Mass	The recombinant human NKG2D consists of 157 amino acids and has a calculated molecular mass of 18.4 kDa.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method
Purity	> 90 % as determined by SDS-PAGE
Stability	Samples are stable for up to twelve months from date of receipt at -70centigrade
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

GENE INFORMATION

Gene Name	KLRK1 killer cell lectin-like receptor subfamily K, member 1 [Homo sapiens]
Official Symbol	KLRK1
Synonyms	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;
Gene ID	22914

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mRNA Refseq	NM_007360
Protein Refseq	NP_031386
MIM	611817
UniProt ID	P26718

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