Active Recombinant Monkey KLRK1 Protein, His-tagged

Cat. No. KLRK1-11127M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Cynomolgus NKG2D, His Tag is expressed from human 293 cells (HEK293). It contains AA Ile 73 - Val 216 (Accession # P61252-1). This protein carries a polyhistidine tag at the N-terminus. Predicted N-terminus: His
Species	Monkey
Source	HEK293
ProteinLength	73-216 aa
Description	NKG2D is a transmembrane protein belonging to the CD94/NKG2 family of C-type lectin-like receptors, also known as KLRK1, CD314, D12S2489E, KLR and killer cell lectin like receptor K1. NKG2D itself forms a homodimer whose ectodomains serve for ligand binding. NKG2D is a major recognition receptor for the detection and elimination of transformed and infected cells as its ligands are induced during cellular stress, either as a result of infection or genomic stress such as in cancer. In NK cells, NKG2D serves as an activating receptor, which itself is able to trigger cytotoxicity. The function of NKG2D on CD8+ T cells is to send co-stimulatory signals to activate them.
Form	Lyophilized from 0.22 μm filtered solution in PBS, pH7.4 with trehalose as protectant.
Bio-activity	Immobilized Cynomolgus NKG2D, His Tag at 5 μg/mL (100 μL/well) can bind Human MICA, Fc Tag with a linear range of 0.2-2 ng/mL.

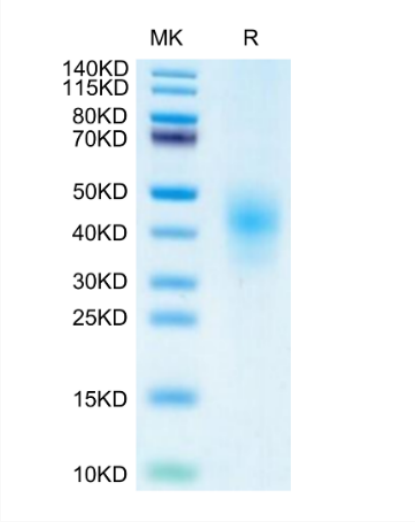
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Molecular Mass	The protein has a calculated MW of 18.6 kDa. The protein migrates as 30-40 kDa when calibrated against Star Ribbon Pre-stained Protein Marker under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 0.01 EU/μg by the LAL method/rFC method.
Purity	>90% as determined by SDS-PAGE.
Storage	This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution. For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 μg/μL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.

GENE INFORMATION

Gene Name	KLRK1 killer cell lectin like receptor K1 [Macaca fascicularis (crab-eating macaque)]
Official Symbol	KLRK1
Synonyms	KLRK1; killer cell lectin like receptor K1; nkg2D; NKG2-D type II integral membrane protein; Killer cell lectin-like receptor subfamily K member 1; NK cell receptor D; NKG2-D-activating NK receptor; NKG2D receptor; NKG2D*01:01:01; NKG2D*01:02:01; NKG2D*01:02:02; NKG2D*01:02:03; NKG2D*01:02:04; NKG2D*01:03:01; Natural killer group 2 D; killer cell lectin-like receptor subfamily K, member 1
Gene ID	102120479

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mRNA Refseq	XM_015430167
Protein Refseq	XP_015285653
UniProt ID	P61252
SDS-PAGE.	

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