

Recombinant Cynomolgus KLRC1&KLRD1 Heterodimer Protein, His/FLAG-tagged

Cat. No. KLRC1&KLRD1-161C **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Cyno NKG2A/CD94 is produced by Human 293 Cells. The target gene encoding Lys100-Leu233 & Ser34-Ile179 is expressed with an 8His & a FLAG tag at the N terminus.
Species	Cynomolgus
Source	HEK293
ProteinLength	100-233;34-179 a.a.
Description	NKG2-A contains C-type lectin domain and belongs to the killer cell lectin-like receptor (KLR) family. KLR family is a group of transmembrane proteins preferentially expressed in natural killer (NK) cells. NK cells are a distinct lineage of lymphocytes that mediate cytotoxic activity and secrete cytokines upon immune stimulation. CD94, also known as killer cell lectin-like receptor subfamily D member 1 (KLRD1), is expressed on the surface of NK cells in the innate immune system. CD94 plays a role as a receptor for the recognition of MHC class I Human Leukocyte Antigen (HLA)-E molecules by NK cells and some cytotoxic T-cells. CD94 can form disulfide-bonded heterodimer with NKG2A on the surface of NK cells. The CD94/NKG2A complex interacts with HLA-E on target cells and inhibit the cytotoxic activity of NK cells to prevent cell lysis.
Form	Lyophilized from a 0.2 um filtered solution of PBS, pH7.4.

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Molecular Mass	Predicted Molecular Weight: 18.6kDa & 20.3kDa Apparent Molecular Weight: 18.4-35kDa, under reducing conditions.
AA Sequence	Lys100-Leu233; Ser34-Ile179
Endotoxin	Less than 0.1 EU/ug.
Purity	>95%
Storage	Lyophilized protein should be stored at < -20 centigrade, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7 centigrade for 2-7 days. Aliquots of reconstituted samples are stable at < -20 centigrade for 3 months. Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100µg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Quality Statement	Purity: greater than 95% as determined by reducing SDS-PAGE.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.

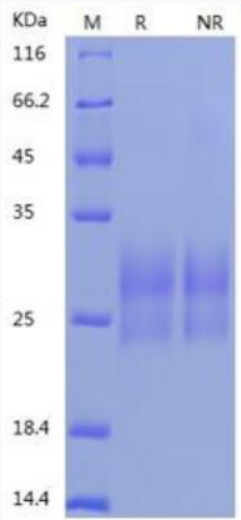
GENE INFORMATION

Gene Name	KLRC1 killer cell lectin like receptor C1 [Macaca mulatta (Rhesus monkey)]&KLRD1 killer cell lectin like receptor D1 [Macaca mulatta (Rhesus monkey)]
Official Symbol	KLRC1&KLRD1

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Synonyms	KLRC1&CD94 Heterodimer; CD159A&KLRD1 Heterodimer
Gene ID	574146&574145
mRNA Refseq	NM_001032829.1&NM_001032828.1
Protein Refseq	NP_001028001.1&NP_001028000.1
UniProt ID	Q9MZJ2 & Q9MZK9
SDS-PAGE	 M: Marker. R: Reducing conditions. NR: Non-reducing conditions.
	SEC-HPLC