

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

Cat. No. KLRC1&KLRD1-160H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human NKG2A & CD94 Heterodimer Protein is produced by human 293 cells. The target gene encoding Arg100-Leu233 & Ser34-Ile179 is expressed with 8His & Flag tag at the Nterminus.
Species	Human
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: 18.7KDa&20.1KDa
AA Sequence	R100-L233; S34-I179
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.
Reconstitution	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in ddH ₂ O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Quality Statement	Purity: >95% by SDS-PAGE gel and coomassie blue staining.
Shipping	The product is shipped at ambient temperature.

GENE INFORMATION

Gene Name	KLRC1 killer cell lectin like receptor C1 [Homo sapiens (human)]&KLRD1 killer cell lectin like receptor D1 [Homo sapiens (human)]
Official Symbol	KLRC1&KLRD1
Synonyms	KLRC1&CD94 Heterodimer; CD159A&KLRD1 Heterodimer

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Gene ID	3821&3824
mRNA Refseq	NM_002259.5&NM_001114396.3
Protein Refseq	NP_002250.2&NP_001107868.2
MIM	161555&602894
UniProt ID	P26715&Q13241
SDS-PAGE	