

Recombinant Human KLRC2&KLRD1 Heterodimer Protein, His/FLAG-tagged

Cat. No. KLRC2&KLRD1-162H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human NKG2C/CD94 is produced by Human 293 Cells. The target gene encoding E98-L231& S34-I179 is expressed with a 8His & a FLAG tag at the N terminus.
Species	Human
Source	HEK293
ProteinLength	98-231;34-179 a.a.
Description	NKG2-C 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 NKG2C on the surface of NK cells. The CD94/NKG2C 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.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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Molecular Mass	Predicted Molecular Weight: 18.6kDa & 20.1kDa Apparent Molecular Weight: NKG2C protein migrates as 26kDa in an reducing SDS-PAGE gel due to glycosylation. CD94 protein appeared in a smear between 26~34kDa in a reducing SDS-PAGE gel due to glycosylation.
AA Sequence	E98-L231; 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. 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	KLRC2 killer cell lectin like receptor C2 [Homo sapiens (human)]&KLRD1 killer cell lectin like receptor D1 [Homo sapiens (human)]
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Official Symbol	KLRC2&KLRD1
Synonyms	NKG2C & CD94
Gene ID	3822&3824
mRNA Refseq	NM_002260.4&NM_001114396.3
Protein Refseq	NP_002251.2&NP_001107868.2
MIM	602891&602894
UniProt ID	P26717 & Q13241
SDS-PAGE	

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