Active Recombinant Human KLRD1 protein, His-tagged

Cat. No. KLRD1-252H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human KLRD1(Lys32-Ile179) fused with His tag at N-terminal was expressed in CHO.
Species	Human
Source	CHO
ProteinLength	32-179 a.a.
Description	CD94 is an approximately 25 kDa type 2 transmembrane protein that plays an important role in regulating natural killer (NK) cell activation. Human CD94 consists of a 10 amino acid (aa) cytoplasmic domain, a 21 aa transmembrane segment, and a 148 aa extracellular domain (ECD) with a stem region and one C-type lectin domain. Alternative splicing generates additional isoforms that lack either the stem region, the terminal half of the ECD, or the cytoplasmic and transmembrane regions. CD94 is expressed at varying cell surface density on NK cells during their differentiation and on a subset of CD8+ T cells. It associates into disulfide-linked heterodimers with NKG2A/B, C, or E (5-8), and these complexes function as receptors for the nonclassical MHC class I molecule, HLA-E. Ligation of CD94-NKG2A or CD94-NKG2C on NK cells triggers inhibitory or activating signals, respectively.
Predicted N Terminal	Lys32
Form	Lyophilized from a 0.2 μm filtered solution in PBS.

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Bio-activity	Measured by its binding ability in a functional ELISA. When Recombinant Mouse NKG2A/CD159a Fc Chimera is coated at 0.5 μg/mL, 100 μL/well, recombinant human CD94 binds with a typical ED50 of 0.1-0.6 μg/Ml.
Molecular Mass	Predicted Molecular Mass: 18 kDa SDS-PAGE: 21-38 kDa, reducing conditions
Endotoxin	<0.1 EU per 1 μg of the protein by the LAL method.
Purity	>95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Reconstitution	Reconstitute at 200 μg/mL in PBS.

GENE INFORMATION

Gene Name	KLRD1 killer cell lectin-like receptor subfamily D, member 1 [Homo sapiens]
Official Symbol	KLRD1
Synonyms	KLRD1; killer cell lectin-like receptor subfamily D, member 1; CD94; natural killer cells antigen CD94; KP43; CD94 antigen; NK cell receptor;
Gene ID	3824
mRNA Refseq	NM_001114396

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Protein Refseq	NP_001107868
MIM	602894
UniProt ID	Q13241

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