

For Research Use Only

Recombinant Human CD94/KLRD1 protein (rFc Tag)(HPLC verified)



Catalog Number: Eg2580

Basic Information

Species:
Human

Purity:
>90 %, SDS-PAGE
>90 %, SEC-HPLC

Tag:
rFc Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE
>90 %, SEC-HPLC

Endotoxin Level:
<0.1 EU/μg protein, LAL method

Source:
HEK293-derived Human CD94 protein Lys32-Ile179 (Accession# Q13241-1) with a rabbit IgG Fc tag at the N-terminus.

GeneID:
3824

Accession:
Q13241-1

Predicted Molecular Mass:
44.4 kDa

SDS-PAGE:
50-65 kDa, reducing (R) conditions

Formulation:
Lyophilized from 0.22 μm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping

Storage:

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

Shipping:

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

CD94, also known as the killer cell lectin-like receptor (KLR) family member, is a type II integral membrane protein related to the C-type lectin superfamily. It is specifically expressed on natural killer (NK) cells and a subset of T cells, and plays a crucial role in stimulating NK cell cytotoxicity and the release of tumor necrosis factor. CD94 can form heterodimers with different NKG2 proteins (e.g., NKG2A, NKG2C, NKG2E, or NKG2F) to balance the function of NK cells and CD8+ T cells.

References

1. Jianhua Yu. et al. (2009). J Immunol. 183(8):4968-74.
2. Hong Fang. et al. (2021). Leuk Res. 108:106614.
3. Anasuya Gunturi. et al. (2004). Immunol Res. 30(1):29-34.

Synonyms

CD94, Killer cell lectin-like receptor subfamily D member 1, KLRD1, KP43, NK cell receptor

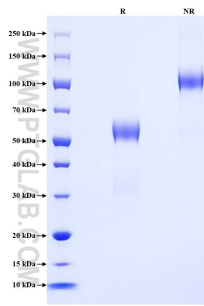
For technical support and original validation data for this product please contact

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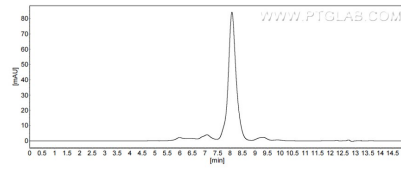
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Selected Validation Data



Purity of Recombinant Human CD94 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.



The purity of Human CD94/KLRD1 was greater than 90% as determined by SEC-HPLC.