

Recombinant Human CD99 protein (rFc Tag) (HPLC verified)

Catalog Number: Eg1728

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 CD99 protein Asp23-Asp122 (Accession# P14209-1) with a rabbit IgG Fc tag at the C-terminus.**GeneID:**
4267**Accession:**
P14209-1**Predicted Molecular Mass:**
36.4 kDa**SDS-PAGE:**
44-55 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

CD99, also known as MIC2, is a heavily O-glycosylated transmembrane protein involved in T-cell adhesion processes and in spontaneous rosette formation with erythrocytes. CD99 is broadly distributed on many cell types, with particularly strong expression on human cortical thymocytes, Ewing's sarcoma cells and peripheral primitive neuroectodermal tumors. In normal cells, CD99 has been functionally implicated in cell adhesion, migration, apoptosis, differentiation, activation, and proliferation of lymphocytes and monocyte extravasation and transport of several transmembrane proteins.

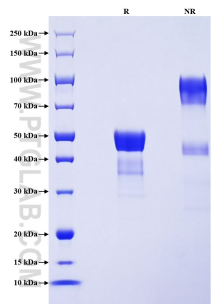
References

1. Wacławiczek M. et al. (1998) Immunol. 161(9):4671-4678.
2. Byun, H. J. et al. (2006) J Biol Chem. 281(46):34833-47.
3. Alberti I. et al. (2002) FASEB J. 16(14):1946-1948.

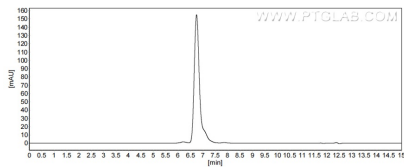
Synonyms

12E7, CD99 antigen, CD99 molecule, E2 antigen, MIC2

Selected Validation Data



Purity of Recombinant Human CD99 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 CD99 was greater than 90% as determined by SEC-HPLC.