For Research Use Only

Recombinant Mouse CD7 protein (rFc Tag)

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Catalog Number: Eg6283

Basic Information

Species: Mouse

Purity: >90 %, SDS-PAGE

Tag: rFc Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE

Endotoxin Level:
<0.1 EU/ μ g protein, LAL method

Source:
HEK293-derived Mouse CD7 protein Gln24-Pro150 (Accession# P50283) with a rabbit IgG Fc tag at the C-terminus.

GeneID:
12516

Accession:
P50283

Predicted Molecular Mass:
39.8 kDa

SDS-PAGE:
42-55 kDa, reducing (R) conditions

Formulation:
Lyophilized from 0.22 μ m 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℃ to -80℃ as lyophilized proteins.
- 3 months, -20℃ to -80℃ 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

CD7, or T-cell antigen 7 or GP40, is a transmembrane glycoprotein and a member of the immunoglobulin supergene family. CD7 is predominantly expressed on thymocytes and mature T cells, as well as natural killer (NK) cells, and it is one of the earliest antigens to appear on cells of the T-lymphocyte lineage. CD7 plays a significant role in T-cell and T-cell/B-cell interactions during early lymphoid development. It is involved in the regulation of cell signaling and biology, including T-cell activation, proliferation, and the expression of interleukin-2 receptor alpha (IL-2R α). CD7 is not only a marker for T-cells but also has functional implications in immune cell interactions and adhesion. It can provide co-stimulatory signals and is associated with CD3 and CD45, participating in T-cell activation.

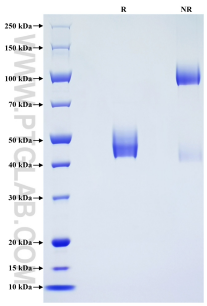
References

1. G D Sempowski. et al. (1999). Crit Rev Immunol. 19(4):331-348.
2. StillwellR. et al.(2001). Immunol Res. 24(1): 31-52.
3. WeiSD. et al. (2005). Cell Death Dis. 9(3): 293.

Synonyms

T-cell antigen CD7

Selected Validation Data



Purity of Recombinant Mouse CD7 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.