For Research Use Only

Recombinant Mouse CD22 protein (His Tag)

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Catalog Number: Eg1324

Basic Information

Species: Mouse

Purity: >90 %, SDS-PAGE

Tag: His Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE

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

Source:
HEK293-derived Mouse CD22 protein Ser22-Arg708 (Accession# P35329-1) with a His tag at the C-terminus.

GeneID:
12483

Accession:
P35329-1

Predicted Molecular Mass:
77.8 kDa

SDS-PAGE:
90-120 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

CD22, also known as Siglec-2 (sialic acid binding Ig-like lectin 2) or BL-CAM (B-lymphocyte cell adhesion molecule), is a 130-140 kDa, B-cell restricted, type I transmembrane glycoprotein belonging to the immunoglobulin gene superfamily. The expression of CD22 is developmentally regulated. It is expressed at low levels in the cytoplasm of pro-B and pre-B cells and present on the cell surface only at mature stages of B-cell differentiation. Cell surface expression is lost during terminal differentiation into plasma cell and after B-cell activation. CD22 is an inhibitory receptor for B-cell receptor (BCR) signalling, preferentially binds to alpha-2,6-linked sialic acid and mediates B-cell B-cell interactions. It plays a crucial role in activation and differentiation of the B-cell.

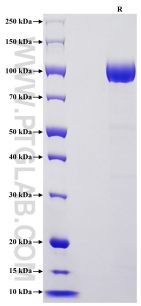
References

1. Engel, P et al. The Journal of experimental medicine vol. 181,4 (1995): 1581-6.
2. Poe, Jonathan C, and Thomas F Tedder. Trends in immunology vol. 33,8 (2012): 413-20.
3. Chen, Jie et al. Oncotarget vol. 7,35 (2016): 56129-56146.

Synonyms

B-cell receptor CD22, BL-CAM, B-lymphocyte cell adhesion molecule, Lyb-8, Sialic acid-binding Ig-like lectin 2

Selected Validation Data



Purity of Recombinant Mouse CD22 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) conditions and stained using Coomassie blue.