For Research Use Only

Recombinant Mouse CD19 protein (His Tag)

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Catalog Number: Eg0907

Basic Information

Species: Mouse

Purity: >80 %, SDS-PAGE

Tag: C-His

Technical Specifications

Purity:
>80 %, SDS-PAGE

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

Source:
HEK293-derived Mouse CD19 protein Arg19-Gly287 (Accession# P25918) with a His tag at the C-terminus.

GeneID:
12478

Accession:
P25918

Predicted Molecular Mass:
30.4 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

CD19 is a 95 kDa type I transmembrane glycoprotein belonging to the immunoglobulin superfamily. It is expressed by B cells and follicular dendritic cells. CD19 is up-regulated at the step of B-lineage commitment during the differentiation of the hematopoietic stem cell, it remains on during subsequent stages of differentiation until finally down-regulated during terminal differentiation into plasma cells. CD19 is involved in B cell development, activation and differentiation. It is the dominant component for the signaling complex on B cells that includes CD21 (CR2), CD81 (TAPA-1) and CD225 and acts as a critical co-receptor for BCR signal transduction.

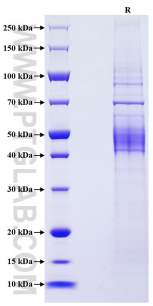
References

1.Tedder TF. et al. (1989) J Immunol. 143(2):712-7.
2.Scheuermann RH. et al. (1995) Leuk Lymphoma. 18(5-6):385-97.
3.Wang K. et al. (2012) Exp Hematol Oncol. 1(1):36.

Synonyms

CD19, CD19 antigen

Selected Validation Data



Purity of Recombinant Mouse CD19 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) conditions and stained using Coomassie blue.