For Research Use Only

Recombinant Mouse Siglec-12 protein (rFc Tag)

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Catalog Number: Eg2733

Basic Information

Species: Mouse

Purity: >90 %, SDS-PAGE

Tag: rFc Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE

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

Source:
HEK293-derived Mouse Siglec-12 protein Gln19-Met350 (Accession# Q91Y57) with a rabbit IgG Fc tag at the C-terminus.

GeneID:
83382

Accession:
Q91Y57

Predicted Molecular Mass:
63.1 kDa

SDS-PAGE:
75-100 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℃ 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

Siglec-12, or Siglece, also known as sialic acid-binding immunoglobulin-like lectin 12 (SIGLEC12), is a member of the Siglec family, which is a group of immune regulatory receptors predominantly found on hematopoietic cells. Siglec-12 is characterized by an extracellular V-set immunoglobulin-like domain followed by two C2-set immunoglobulin-like domains, and cytoplasmic tyrosine-based motifs ITIM and SLAM-like. The encoded protein, upon tyrosine phosphorylation, has been shown to recruit the Src homology 2 domain-containing protein-tyrosine phosphatases SHP1 and SHP2, suggesting its involvement in the negative regulation of macrophage signaling by functioning as an inhibitory receptor.

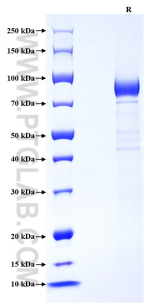
References

1. Elena Gianchecchi. et al. (2021). Int J Mol Sci. 22(11):5774.
2. Yung-Chi Chang. et al. (2020). Adv Exp Med Biol. 1204:197-214.
3. Rhonda Flores. et al. (2019). Cell Mol Immunol. 16(2):154-164.

Synonyms

MIS, mSiglec-E, Myeloid inhibitory siglec, Sialic acid-binding Ig-like lectin 12, Sialic acid-binding Ig-like lectin 5

Selected Validation Data



Purity of Recombinant Mouse Siglec-12 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) conditions and stained using Coomassie blue.