For Research Use Only

Recombinant Human Siglec-9 protein (His Tag)

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Catalog Number: Eg1084

Basic Information

Species:
Human

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 Human Siglec-9 protein Gln18-Gly348 (Accession# Q9Y336-1) with a His tag at the C-terminus.

GeneID:
27180

Accession:
Q9Y336-1

Predicted Molecular Mass:
37.1 kDa

SDS-PAGE:
48-70 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

Sialic acid binding Ig-like lectin 9 (Siglec-9), also known as CD329, is a member of the Siglec family of glycan-recognition proteins. Siglec-9 is a type-I transmembrane protein consisting of an N-terminal extracellular region that contains an N-terminal V-set domain and two C2-set domains, a transmembrane region, and an intracellular domain with an immunoreceptor tyrosine-based inhibitory motif (ITIM) and an ITIM-like motif. It is expressed quite broadly among human blood leukocytes, including monocytes, neutrophils, B cells, NK cells, and minor subsets of T cells. Siglec-9 functions as an inhibitory immune checkpoint and can be targeted to enhance therapeutic antitumor immunity.

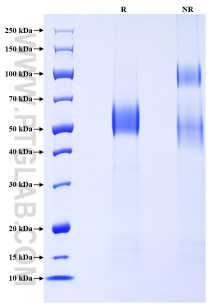
References

1. Zhang JQ. et al. (2000). J Biol Chem. 275(29):22121-6.
2. Zheng Y. et al. (2020). J Immunol Res. 2020:6243819.
3. Ibarlucea-Benitez I. et al. (2021). Proc Natl Acad Sci U S A. 118(26):e2107424118.
4. Mei Y. et al. (2023). Nat Cancer. 4(9):1273-1291.

Synonyms

SIGLEC9, CD329, Protein FOAP 9, Sialic acid-binding Ig-like lectin 9, Siglec 9

Selected Validation Data



Purity of Recombinant Human Siglec-9 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.