

Recombinant Human Siglec-7/CD328 protein (rFc Tag)

Catalog Number: Eg1367

Basic Information

Species:
Human

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 Human Siglec-7 protein Gln19-Leu353 (Accession# Q9Y286-1) with a rabbit IgG Fc tag at the C-terminus.

GeneID:

27036

Accession:

Q9Y286-1

Predicted Molecular Mass:

63.2 kDa

SDS-PAGE:

70-90 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°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C 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 7 (Siglec-7), also known as CD328 or p75/AIRM-1, is a member of the Siglec family of glycan-recognition proteins. Siglec-7 is a type-I transmembrane protein consisting of three extracellular immunoglobulin-like domains that comprise an N-terminal V-set domain and two C2-set domains, a transmembrane region and a cytoplasmic tail containing two tyrosine residues embodied in immunoreceptor tyrosine-based inhibition motif-like motifs. It is mainly expressed on immune cells, with low levels on granulocytes, intermediate levels on monocytes, and relatively high levels on a major subset of natural killer cells and a minor subset of CD8+ T cells. Siglec-7 is an inhibitory receptor that negatively regulates the function of NK cells and modulates the immune response through the interaction of sialic acid-containing ligands.

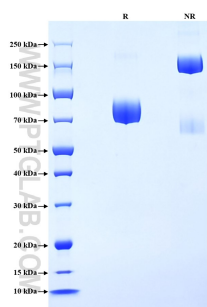
References

1. Zheng Y. et al. (2020). J Immunol Res. 2020:6243819.
2. Nicoll G. et al. (1999). J Biol Chem. 274(48):34089-95.
3. Shao JY. et al. (2016). Scand J Immunol. 84(3):182-90.

Synonyms

SIGLEC7, Siglec-7, AIRM 1, AIRM1, AIRM-1

Selected Validation Data



Purity of Recombinant Human Siglec-7 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.

For technical support and original validation data for this product please contact

T: 027-87531629

E: Proteintech-CN@ptglab.com

W: ptgcn.com

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