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Recombinant Human Siglec-5/CD170 Protein

Catalog No.: RP01913 Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Human	8778	O15389

Tags
C-His

Synonyms
SIGLEC5;CD170;CD33L2;OB-BP2;OBBP2;SIGLEC-5

Product Information

Source	Purification
HEK293 cells	

Calculated MW	Observed MW
47.19 kDa	50-60 kDa

Endotoxin
<0.1EU/μg of the protein by LAL method.

Formulation
Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

Reconstitution
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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Background

Siglecs (sialic acid binding Ig-like lectins) are I-type (Ig-type) lectins belonging to the Ig superfamily. They are characterized by an N-terminal Ig-like V-type domain which mediates sialic acid binding , followed by varying numbers of Ig-like C2-type domains. Eleven human Siglecs have been cloned and characterized . They are sialoadhesin/CD169/Siglec-1, CD22/Siglec-2, CD33/Siglec-3, Myelin-Associated Glycoprotein (MAG/Siglec-4a) and the Siglec-5 to 11. To date, no Siglec has been shown to recognized any cell surface ligand other than sialic acids, suggesting that interactions with glycans containing this carbohydrate are important in mediating the biological functions of Siglecs. Siglec-5 to 11 share a high degree of sequence similarity with CD33/Siglec-3 both in their extracellular and intracellular regions. They are collectively referred to as CD33-related Siglecs. One remarkable feature of the CD33-related Siglecs is their differential expression pattern within the hematopoietic system. This fact, together with the presence of two conserved immunoreceptor tyrosine-based inhibition motifs (ITIMs) in their cytoplasma tails, suggests that CD33-related Siglecs are involved in the regulation of cellular activation within the immune system. Human Siglec-5 cDNA encodes a 551 amino acid (aa) polypeptide with a hydrophobic signal peptide, an N-terminal Ig-like V-type domain, three Ig-like C2-type domains, a transmembrane region and a cytoplasma tail . Siglec-5 exists as a disulfide-linked homodimer on the cell surface and is expressed on monocytes, neutrophils and B cells . It binds equally well to both alpha 2,3- and alpha 2,6-linked sialic acid .

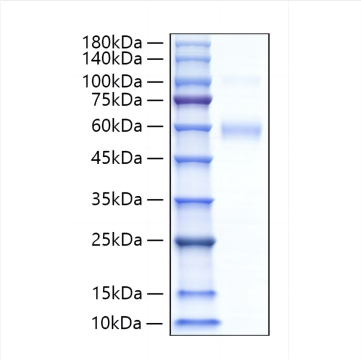
Basic Information

Description
Recombinant Human Siglec-5/CD170 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Lys18-Val437) of human Siglec-5/CD170 (Accession #NP_003821.1) fused with a His tag at the C-terminus.

Bio-Activity

Storage
Store at -20℃.Store the lyophilized protein at -20℃ to -80 ℃ up to 1 year from the date of receipt.
After reconstitution, the protein solution is stable at -20℃ for 3 months, at 2-8℃ for up to 1 week.
Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Human Siglec-5/CD170 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 50-60 KD.