

Recombinant Mouse Siglec-5/CD170 Protein

Catalog No.: RP01913

Sequence Information

Species **Gene ID**
Mouse 233186

Swiss Prot **Tags**
Q920G3 C-His

Synonyms

Sialic acid-binding Ig-like lectin 5,
Siglec-5, Siglec-F, mSiglec-F,
CD170

Product Information

Source **Purification**
HEK293 cells ≥ 90% as
 determined by
 SDS-PAGE.

Calculated MW **Observed MW**
45.37 kDa 50–60 kDa

Endotoxin

< 0.1 EU/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 stabilizer
(e.g. 0.1% BSA, 5% HSA, 10% FBS
or 5% Trehalose), and aliquot the
reconstituted protein solution to
minimize free-thaw cycles.

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 recognize 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 cytoplasmic 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 cytoplasmic 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 Mouse Siglec-5/CD170 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Asp18–Thr437) of Mouse Siglec-5/CD170 (Accession #Q920G3) fused with a His tag at the C-terminus.

Activity

Shipping

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at –20°C

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

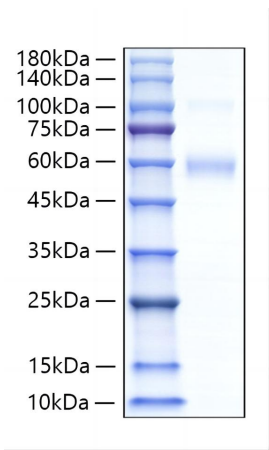
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Validation Data



Recombinant Mouse Siglec-5/CD170 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.