Recombinant Human Siglec-5/CD170 Protein

RPCB1299

Product Information

Product SKU:	RPCB1299	**Gene ID**:	8778	**Size**:	10µg
Tag:	C-His	**Reactivity**:	Human		

Additional Information

Expression Host:	HEK293 cells	**Swissprot:**	O15389
Purity:	-		

Protein Information

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

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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 .

Protein Description: High quality, high purity and low endotoxin recombinant Recombinant Human Siglec-5/CD170 Protein , tested reactivity in HEK293 cells and has been validated in SDS-PAGE.100% guaranteed.

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

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

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.

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