

Biotinylated Human Siglec-5/CD170 Protein (Primary Amine Labeling)

Cat. No. SIG-HM205B

Description	
Source	Recombinant Biotinylated Human Siglec-5/CD170 Protein is expressed from HEK293 with hFc tag at the C-Terminus. It contains Glu17-Thr434.
Accession	O15389
Molecular Weight	The protein has a predicted MW of 73.1 kDa. Due to glycosylation, the protein migrates to 90-115 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE

Formulation and Storage	
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -20 to -80°C for 3-6 months in unopened state after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

Group B Streptococcus (GBS) causes invasive infections in human newborns. the GBS β -protein attenuates innate immune responses by binding to sialic acid-binding immunoglobulin-like lectin 5 (Siglec-5), an inhibitory receptor on phagocytes. the polymorphism could influence the risk of prematurity among human fetuses of mothers colonized with GBS. This first functionally proven example of a paired receptor system in the Siglec family has multiple implications for regulation of host immunity.

Assay Data

Tris-Bis PAGE



Biotinylated Human Siglec-5 on Tris-Bis PAGE under reduced conditions. The purity is greater than 95%.