Human Siglec-2/CD22 Protein

Cat. No. SIG-HM122

Description

Source	Recombinant Human Siglec-2/CD22 Protein is expressed from HEK293 with His tag at the C-Terminus.
	It contains Asp20-Arg687.
Accession	P20273-1
Molecular Weight	The protein has a predicted MW of 76.2 kDa. Due to glycosylation, the protein migrates to 100-120 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 90% as determined by HPLC

Formulation and Storage

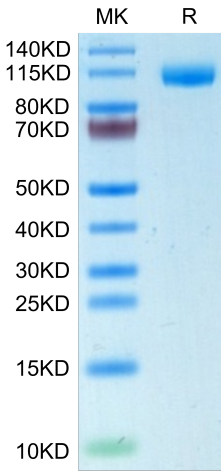
Formulation	Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 24 months as supplied from date of receipt.-80°C for 3 months after reconstitution.Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

CD22, or cluster of differentiation-22, is a molecule belonging to the SIGLEC family of lectins. It is found on the surface of mature B cells and to a lesser extent on some immature B cells. CD22 a member of the immunoglobulin superfamily. CD22 functions as an inhibitory receptor for B cell receptor (BCR) signaling. It is also involved in the B cell trafficking to Peyer's patches in mice.

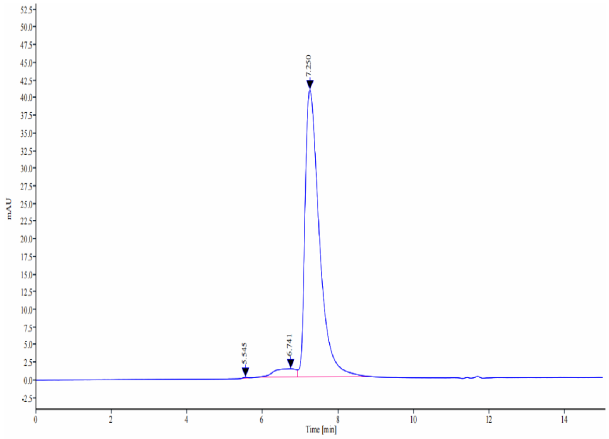
Assay Data

Bis-Tris PAGE



Human Siglec-2 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



The purity of Human Siglec-2 is greater than 90% as determined by SEC-HPLC.

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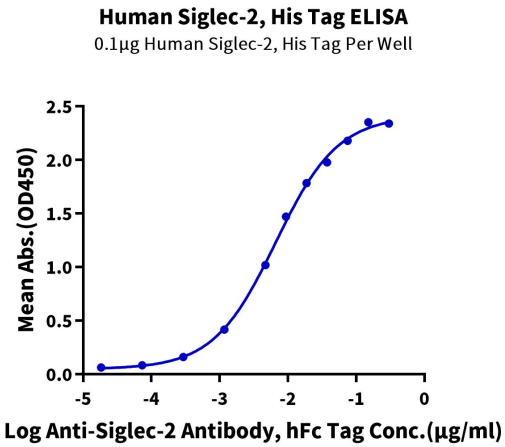
Assay Data

ELISA Data



Immobilized Human Siglec-2, His Tag at 1μg/ml (100μl/well) on the plate. Dose response curve for Anti-Siglec-2 Antibody, hFc Tag with the EC50 of 6.6ng/ml determined by ELISA.