

## Siglec-2/CD22 Protein, Human, Recombinant (His & Avi), Biotinylated

### General Information

Synonyms:	T-cell surface antigen Leu-14;CD22 molecule;CD22;SIGLEC2FLJ22814;sialic acid binding Ig-like lectin 2;CD22 antigenMGC130020;B-cell receptor CD22;BL-CAM;Siglec-2;B-lymphocyte cell adhesion molecule
Protein Construction:	Asp20-Arg687
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P20273
Molecular Weight:	110-130 KDa (reducing condition)
AA Sequence:	Asp20-Arg687

### QC Testing

Biological Activity:	Loaded Biotinylated Human Siglec-2-His-Avi on HIS1K Biosensor, can bind Anti-Human Siglec-2 mAb-Fc with an affinity constant of 0.16 nM as determined in BLI assay. (Regularly tested)
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS, pH 7.4.

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein 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. Human Siglec-2, also known as B-cell antigen CD22 or B-lymphocyte cell

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adhesion molecule (BL-CAM), is a B-cell restricted glycoprotein that is expressed in the cytoplasm of progenitor B and pre-B cells and on the surface of mature B cells. Two distinct human Siglec-2/CD22 cDNAs that arise from differential RNA processing of the same gene have been isolated. Siglec-2/CD22 is an adhesion molecule that preferentially binds alpha 2,6- linked sialic acid on the same (cis) or adjacent (trans) cells. Interaction of CD22 with trans ligands on opposing cells was found to be favored over the binding of ligands in cis.

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