

Siglec-15 Protein, Human, Recombinant (hFc & Avi), Biotinylated

General Information

Synonyms:	CD33L3;Siglec-15;Sialic acid-binding Ig-like lectin 15;CD33 antigen-like 3
Protein Construction:	Phe20-Thr263
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q6ZMC9
Molecular Weight:	58-75 KDa (reducing condition)
AA Sequence:	Phe20-Thr263

QC Testing

Biological Activity:	Loaded Biotinylated Human Siglec-15-Fc(at#CY14) on AHC Biosensor, can bind Anti-Human Siglec15 mAb-mFc with an affinity constant of 0.13 nM as determined in BLI assay. (Regularly tested)
Purity:	Greater than 90% 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, 150 mM NaCl, 0.3% Chaps, 5% Trehalose, 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

Human Siglec-15 is a transmembrane glycoprotein in the Siglec family. Siglecs are type I transmembrane proteins where the NH₃⁺-terminus is in the extracellular space and the COO⁻-terminus is cytosolic. Each Siglec contains an N-terminal V-type immunoglobulin domain (Ig domain) which acts as the binding receptor for sialic acid. These lectins are placed into the group of I-type lectins because the lectin domain is an immunoglobulin fold. All Siglecs

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are extended from the cell surface by C2-type Ig domains which have no binding activity. Siglecs differ in the number of these C2-type domains. Human Siglec-15 consists of a 244 amino acid (aa) extracellular domain (ECD) with two Ig-like domains, a 21 aa transmembrane segment, and a 44 aa cytoplasmic domain. Siglec-15 function is important for osteoclast formation and TRANCE/RANK Ligand signaling in osteoclasts.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481