

Siglec-15 Protein, Human, Recombinant (His & Avi)

General Information

Synonyms:	Siglec15;CD33 molecule-like 3;HsT1361;CD33L3;CD33 antigen-like 3;SIGLEC-15
Protein Construction:	Phe20-Thr263
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q6ZMC9
Molecular Weight:	29.5 kDa (predicted). Due to glycosylation, the protein migrates to 30-38 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Immobilized Human Siglec-15, His Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Anti-Siglec-15 Antibody, hFc Tag with the EC50 of 4.6ng/ml determined by ELISA.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing 20 mM NaAC (pH 5.0). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in 20mM NaAC (pH 5.0). 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:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. 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

Siglec-15 is a transmembrane glycoprotein in the Siglec family of sialic acid-binding immune regulatory molecules. Mature human Siglec-15 consists of a 244 amino acid extracellular domain (ECD) with two Ig-like domains, a 21 aa transmembrane segment, and a 44 aa cytoplasmic domain. Siglec-15 is a potential therapeutic target for osteoporosis and plays a conserved regulatory role in the immune system of vertebrates..

Reference

Jun Wang, et al. Siglec-15 as an immune suppressor and potential target for normalization cancer immunotherapy. Nature Medicine (2019)

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