

## Siglec-15 Protein, Cynomolgus, Recombinant (His & Avi), Biotinylated

### General Information

Synonyms:	CD33 molecule-like 3;CD33L3;Siglec15;SIGLEC-15;CD33 antigen-like 3;HsT1361
Protein Construction:	Met60-Thr322
Species:	Cynomolgus
Expression Host:	HEK293 Cells
Accession:	XP_005586866.2
Molecular Weight:	29.2 kDa (predicted). Due to glycosylation, the protein migrates to 33-43 kDa based on Tris-Bis PAGE result.

### QC Testing

Biological Activity:	Immobilized Anti-Siglec-15 Antibody, hFc Tag at 2µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Cynomolgus Siglec-15, His Tag with the EC50 of 13.2ng/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:	Supplied as 0.22 µm filtered solution in 20 mM PB, 500 mM NaCl, 0.1M L-arginine (pH 6.0).

### Preparation and Storage

#### Stability & Storage:

It is recommended to store the product under sterile conditions at -70°C or lower. Samples are stable for up to 12 months at -80°C. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

Proteins are shipped with blue 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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