Data Sheet (Cat.No.TMPS-00127)

TargetMol

Siglec-15 Protein, Human, Recombinant (hFc)

General Information

Synonyms: CD33L3;SIGLEC-15;HsT1361

Protein Construction: Phe20-Thr263

Species: Human

Expression Host: HEK293 Cells

Accession: Q6ZMC9

Molecular Weight: ~54.3 kDa (Reducing conditions)

QC Testing

Biological Activity: Immobilized Anti-Siglec15 at 1.0 μg/ml (100 μl/well) can bind Siglec-15, hFc, Human with a EC 50 = 5.184 ng/ml and a linear range of 0.064–200.0 ng/ml when detected by Mouse Anti-Human IgG Fc-HRP.

Purity: > 90% as determined by SDS-PAGE

Endotoxin: < 1.0 EU/μg of the protein as determined by the LAL method.

Formulation: Lyophilized from a 0.2 μm filtered solution in PBS.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized 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:

Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

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 preferentially recognizes the Neu5Acalpha2-6GalNAcalpha- structure. Siglec-15 associates with the activating adaptor proteins DNAX activation protein (DAP)12 and DAP10 via its lysine residue in the transmembrane domain. Siglec-15 is the second human Siglec identified to have an activating signaling potential; unlike Siglec-14, however, it does not have an inhibitory counterpart.

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