

Siglec-6 Protein, Human, Recombinant (hFc)

General Information

Synonyms:	sialic acid binding Ig like lectin 6;CD33L1;CD33L;CDW327;OBBP1;CD33L2;SIGLEC6;CD327
Protein Construction:	Gln27-Val331
Species:	Human
Expression Host:	HEK293 Cells
Accession:	O43699-3
Molecular Weight:	60.5 kDa (predicted); 75-105 kDa (reducing conditions, due to glycosylation)

QC Testing

Biological Activity:	Immobilized Human Siglec-6, hFc Tag at 0.5 µg/ml (100 µl/well) on the plate. Dose response curve for Biotinylated Anti-Siglec-6 Antibody, hFc Tag with the EC50 of 12.9 ng/ml determined by ELISA (QC Test).
Purity:	> 95% as determined by Bis-Tris PAGE
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

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:

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

SIGLEC6, also known as CD327, belongs to the immunoglobulin superfamily, SIGLEC (sialic acid binding Ig-like lectin) family. SIGLEC6 is a sialic acid recognizing protein expressed at high levels in placenta (cyto- and syncytiotrophoblastic cells) and at lower levels in spleen, peripheral blood leukocytes (predominantly B-cells) and small intestine. SIGLEC6 localizes in various compartments such as membrane fraction, extracellular region and so

on. SIGLEC6 may show increasing expression human labor and following childbirth, it has been speculated that this expression helps to slow the tempo of human labor. Interestingly, expression of SIGLEC6 is further upregulated in pre-eclampsia, which appears to be a uniquely human disease.

Reference

Winn VD. et al., 2009, Endocrinology. 150 (1): 452-62.

Davila S. et al., 2010, Genes Immun. 11 (3): 232-8.

Lam KK. et al., 2011, J Biol Chem. 286 (43): 37118-27.

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