Data Sheet (Cat.No.TMPY-06349)

TargetMol

Siglec-6 Protein, Human, Recombinant (His)

General Information

Synonyms:	CD33L;sialic acid binding Ig like lectin 6;OBBP1;CD327;CDW327;SIGLEC6;CD33L1;CD33L2
Protein Construction:	A DNA sequence encoding the human SIGLEC6 (NP_942142.3) (Gln27-Val331) was expressed with a polyhistidine tag at the C-terminus. Predicted N terminal: Ser
Species:	Human
Expression Host:	HEK293 Cells
Accession:	NP_942142.3
Molecular Weight:	35.24 kDa (predicted); 57.07 kDa (reducing condition, due to glycosylation)

QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
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 solution filtered through a 0.22 μm filter, containing PBS, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

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.