Data Sheet (Cat.No.TMPJ-00669)

TargetMol

Siglec-5 Protein, Human, Recombinant (His & Flag & hFc)

General Information

Synonyms:	Sialic acid-binding Ig-like lectin 5;OB-BP2;Obesity-binding protein 2;CD33 antigen-like 2; CD170;Siglec-5
Protein Construction:	Glu17-Thr434
Species:	Human
Expression Host:	HEK293 Cells
Accession:	O15389
Molecular Weight:	90-110 KDa (reducing condition)
AA Sequence:	Glu17-Thr434

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS, pH 7.4.

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:

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

Human Siglec-5 are Itype(Igtype) lectins belonging to the Ig superfamily,They are characterized by an N terminal Ig-like V type domain which mediates sialic acid binding, followed by varying numbers of Ig-like C2 type domains. SIGLEC5 has also been designated CD170, they are expressed by monocytic or myeloid lineage cells, and also found at high levels in peripheral blood leukocytes, spleen, bone marrow and at lower levels in lymph node, lung, appendix, placenta, pancreas and thymus. SIGLEC5 are expressed by monocytes and neutrophils but absent from

leukemic cell lines representing early stages of myelomonocytic differentiation. Siglec5 to 11 share a high degree of sequence similarity with CD33/Siglec3 both in their extracellular and intracellular regions. They are collectively referred to as CD33 related Siglecs. One remarkable feature of the CD33 related Siglecs is their differential expression pattern within the hematopoietic system This fact, together with the presence of two conserved immunoreceptor tyrosinebased inhibition motifs (ITIMs) in their cytoplasma tails, suggests that CD33 related Siglecs are involved in the regulation of cellular activation within the immune system.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481