Human Siglec-5 / CD170 Protein, Fc Tag

Catalog # SI5-H5250

Synonym

SIGLEC5,OB-BP2,CD170,CD33L2

Source

Human Siglec-5, Fc Tag (SI5-H5250) is expressed from human 293 cells (HEK293). It contains AA Glu 17 - Thr 434 (Accession # AAH29896). Predicted N-terminus: Glu 17

Molecular Characterization

Siglec-5(Glu 17 - Thr 434) AAH29896	Fc(Pro 100 - Lys 330) P01857

This protein carries a human IgG1 Fc tag at the C-terminus.

The protein has a calculated MW of 73.0 kDa. The protein migrates as 90-110 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per μg by the LAL method.

Purity

>95% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 μm filtered solution in
Tris with Glycine, Arginine and NaCl, pH7.5. Normally trehalose is added as protectant before lyophilization.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

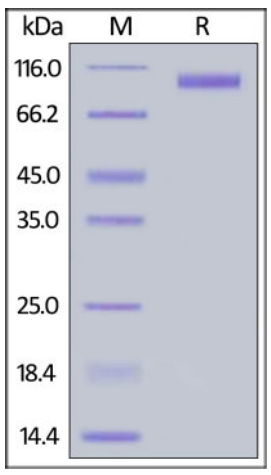
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

No activity loss was observed after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Human Siglec-5, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

Background

Sialic acid-binding Ig-like lectin 5 (SIGLEC5) is also known as CD33 antigen-like 2 (CD33L2), Obesity-binding protein 2 (OB-BP2), CD antigen CD170, which belongs to the immunoglobulin superfamily and SIGLEC (sialic acid binding Ig-like lectin) family. SIGLEC5 / CD170 is expressed by monocytic / myeloid lineage cells. SIGLEC-5 / CD33-L2 binds equally to alpha-2,3-linked and alpha-2,6-linked sialic acid. The sialic acid recognition site may be masked by cis interactions with sialic acids on the same cell surface.

References

(1) Cornish A.L., et al., 1998, Blood 92:2123-2132.

(2) Patel N., et al., 1999, J. Biol. Chem. 274:22729-22738.

(3) Zhuravleva M.A., et al., 2008, J. Mol. Biol. 375:437-447.

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.