

Synonym

Siglec-8,SAF-2,SIGLEC8,SAF2

Source

Human Siglec-8, Fc Tag (SI8-H5254) is expressed from human 293 cells (HEK293). It contains AA Met 17 - Ala 363 (Accession # Q9NYZ4-1).

Predicted N-terminus: Met 17

Molecular Characterization

Siglec-8(Met 17 - Ala 363) Q9NYZ4-1	Fc(Pro 100 - Lys 330) P01857
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This protein carries a human IgG1 Fc tag at the C-terminus.

The protein has a calculated MW of 64.3 kDa. The protein migrates as 70-80 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 PBS, pH7.4. 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.

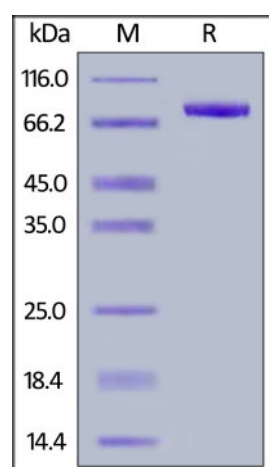
Storage

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

Please avoid repeated freeze-thaw cycles.

This product is stable 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-8, 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

Siglec-8 is also known as SIGLEC8, SAF2, SIGLEC-8, SIGLEC8L and sialic acid binding Ig like lectin 8. Siglec-8 was first identified by CD33 homology screening of ESTs from a cDNA library generated from a patient diagnosed with idiopathic hypereosinophilic syndrome and was originally termed SAF-2 (sialoadhesin family 2). At the tissue level, Siglec-8 mRNA was found to be most highly expressed in lung, PBMCs, spleen, and kidney. Two splice variants of Siglec-8 exist. The initially characterized form contains 431 amino acid residues in total, subsequently, a longer form of Siglec-8, initially termed Siglec-8L. Both forms of Siglec-8 are found in eosinophils and contain a V-set domain with lectin activity and two C2-type Ig repeat domains in the extracellular region.

References

- (1) [Floyd H, et al. 2000. J Biol Chem. 275\(2\):861-6.](#)
- (2) [Foussias G, et al. 2000. Biochem Biophys Res Commun. 278\(3\):775-81.](#)
- (3) [Kikly KK, et al. 2000. J Allergy Clin Immunol. 105\(6 Pt 1\):1093-100.](#)

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