

Synonym

CD172b antigen, CD172b, DKFZp686A05192, FLJ26614, SIRP beta 1, SIRPB1, SIRP-BETA-1, 9930027N05Rik, SIRP-beta

Source

Human SIRP beta, Fc Tag (SIA-H5257) is expressed from human 293 cells (HEK293). It contains AA Glu 30 - Leu 371 (Accession # [O00241-1](#)). Predicted N-terminus: Glu 30

Molecular Characterization

SIRP beta(Glu 30 - Leu 371) O00241-1	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 63.7 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

>90% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

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

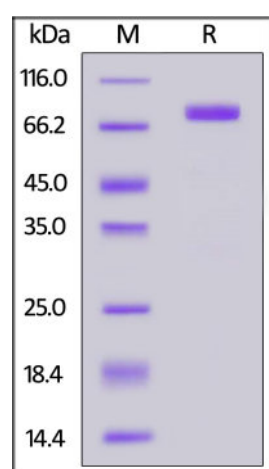
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

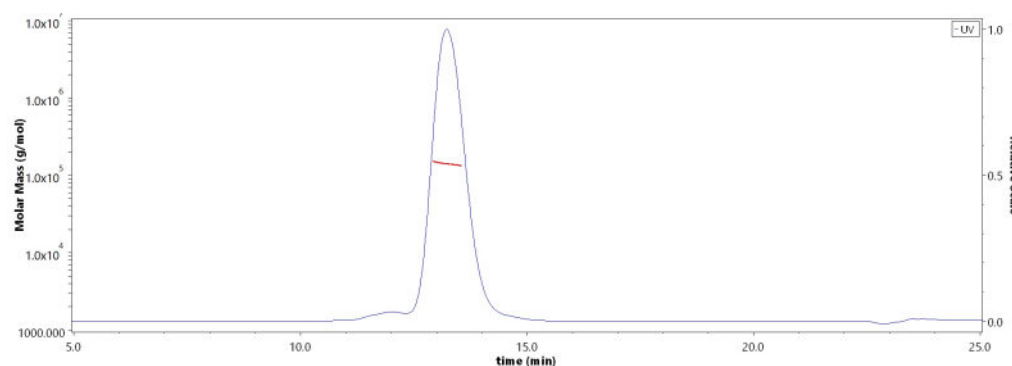
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Human SIRP beta, 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 90%.

SEC-MALS



The purity of Human SIRP beta, Fc Tag (Cat. No. SIA-H5257) was more than 90% and the molecular weight of this protein is around 130-158 kDa verified by SEC-MALS.

[Report](#)

Background

Signal-regulatory protein beta-1 (SIRP beta 1) also known as SIRP β 1, belongs to signal-regulatory-protein (SIRP) family, and immunoglobulin superfamily. SIRP β 1 is a transmembrane protein that has three Ig-like domains in its extracellular region and a short cytoplasmic tail. Human SIRP β 1 is expressed on monocytes and

granulocytes but not on lymphocytes. SIRP beta 1 contains short cytoplasmic domains that lack cytoplasmic sequence motifs capable of recruiting SHP-2 and SHP-1. In addition, they contain a single basic lysine residue within the hydrophobic transmembrane domain.

Clinical and Translational Updates

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