

**Synonym**

leukosialin, sialophorin, GPL115, Galactoglycoprotein, GALGP, Leukocyte sialoglycoprotein

**Source**

Human CD43, His Tag(CD3-H52H9) is expressed from human 293 cells (HEK293). It contains AA Ser 20 - Arg 253 (Accession # [P16150-1](#)). Predicted N-terminus: Ser 20

**Molecular Characterization**

**CD43(Ser 20 - Arg 253)  
P16150-1**

**Poly-his**

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 25.3 kDa. The protein migrates as 45-80 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

**Endotoxin**

Less than 1.0 EU per  $\mu$ g by the LAL method / rFC method.

**Purity**

>90% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

**Formulation**

Lyophilized from 0.22  $\mu$ m filtered solution in PBS, pH7.4 with trehalose as protectant.

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.*

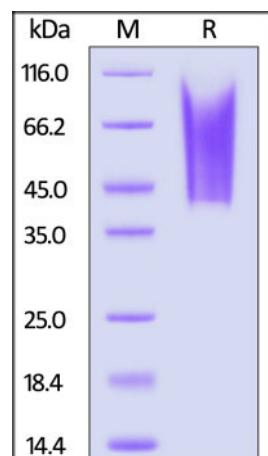
**Storage**

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

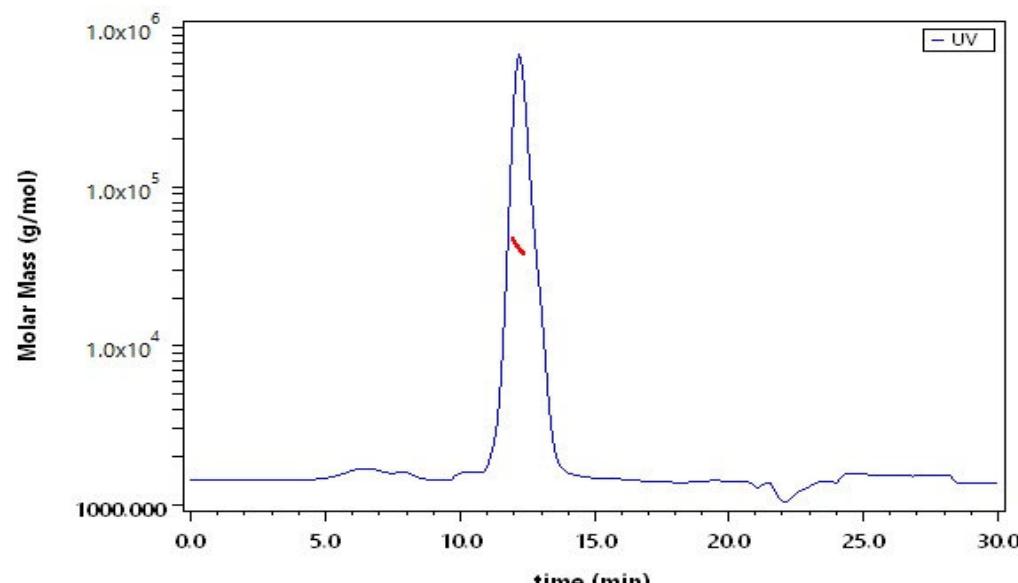
*Please avoid repeated freeze-thaw cycles.*

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 CD43, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%.

**SEC-MALS**

The purity of Human CD43, His Tag (Cat. No. CD3-H52H9) is more than 90% and the molecular weight of this protein is around 38-48 kDa verified by SEC-MALS.

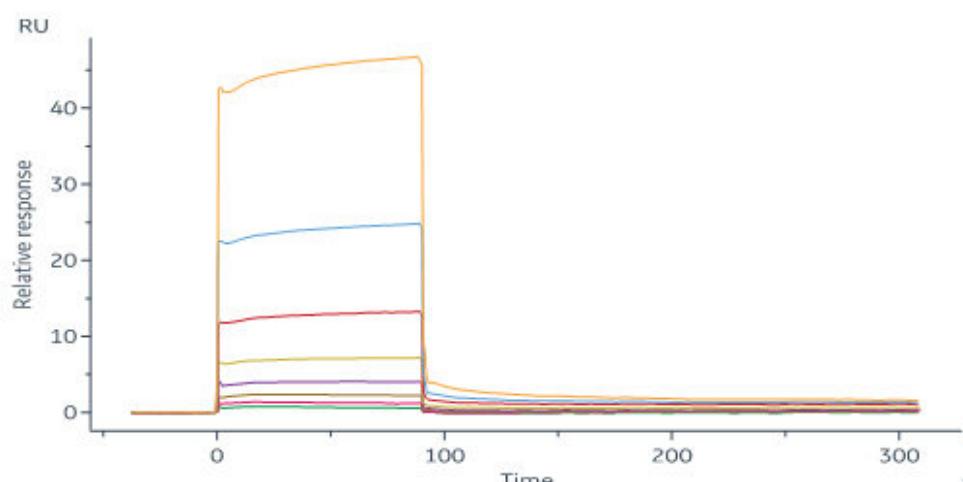
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Human Siglec-1, His Tag (Cat. No. SG1-H52H3) immobilized on CM5 Chip can bind Human CD43, His Tag (Cat. No. CD3-H52H9) with an affinity constant of 76.1  $\mu$ M as determined in a SPR assay (Biacore 8K) (QC tested).

## Background

CD43 or leukosialin or sialophorin, is predominant cell surface sialoprotein of leukocytes which regulates multiple T-cell functions, including T-cell activation, proliferation, differentiation, trafficking and migration. In hematopathology, CD43 is often considered as a T-cell associated marker, because it is expressed by over 95% of thymocytes and peripheral blood T cells. CD43 positively regulates T-cell trafficking to lymph-nodes via its association with ERM proteins (EZR, RDX and MSN).

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