

Synonym

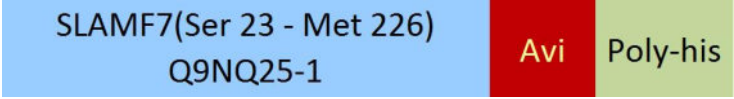
SLAMF7,CD319,CS1,CRACC,19A,FOAP-12

Source

Biotinylated Human SLAMF7, Avitag,His Tag(SL7-H82E0) is expressed from human 293 cells (HEK293). It contains AA Ser 23 - Met 226 (Accession # [Q9NQ25-1](#)).

Predicted N-terminus: Ser 23

Molecular Characterization



This protein carries an Avi tag (Avitag™) at the C-terminus, followed by a polyhistidine tag.

The protein has a calculated MW of 25.57 kDa. The protein migrates as 35-50 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

Labeling

Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.

Protein Ratio

Passed as determined by the HABA assay / binding ELISA.

Endotoxin

Less than 0.1 EU per µg by the LAL method / rFC method.

Purity

>95% as determined by SDS-PAGE.

>95% as determined by SEC-MALS.

Formulation

Lyophilized from 0.22 µm 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

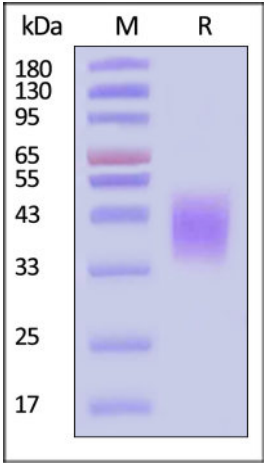
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

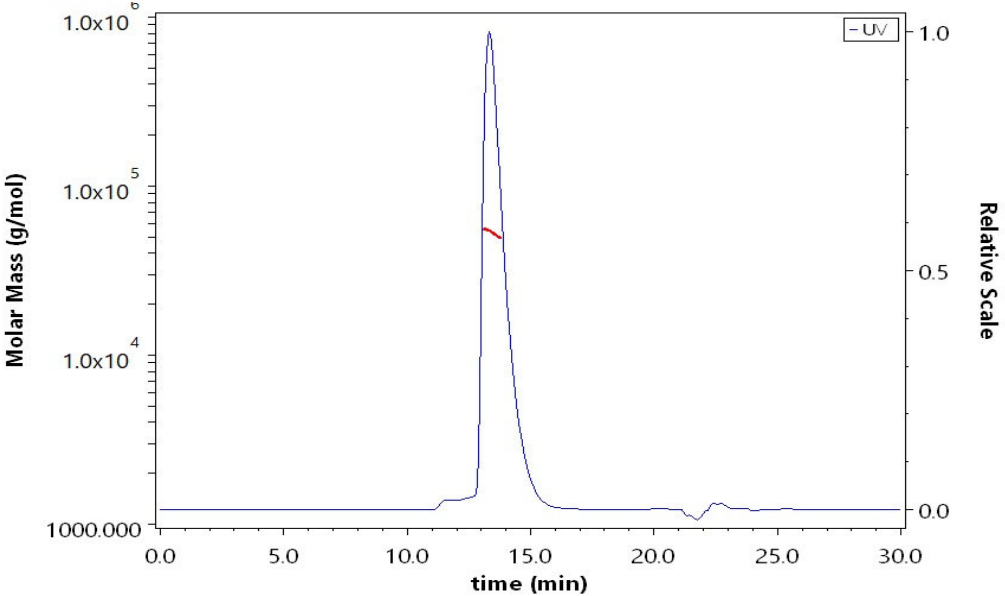
- 20°C to -70°C for 12 months in lyophilized state;
- 70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Biotinylated Human SLAMF7, Avitag,His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

SEC-MALS



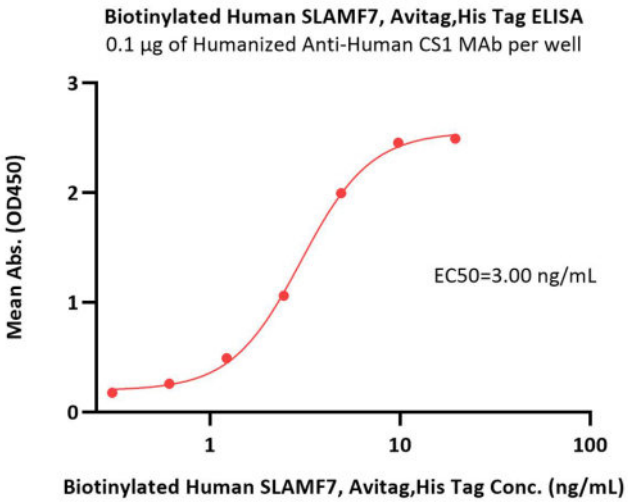
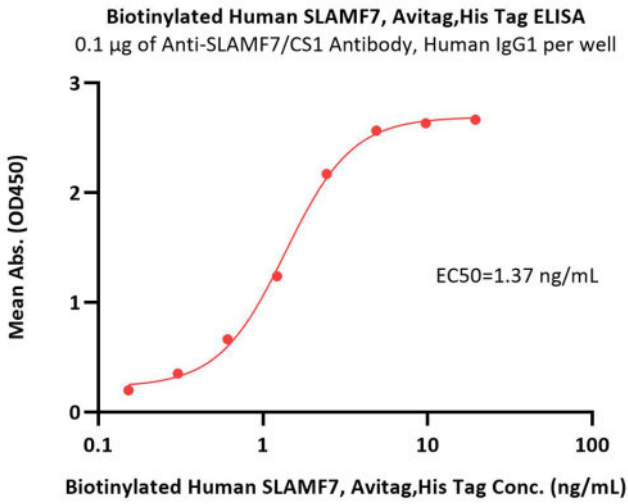
The purity of Biotinylated Human SLAMF7, Avitag,His Tag (Cat. No. SL7-H82E0) is more than 95% and the molecular weight of this protein is around 45-60 kDa verified by SEC-MALS.

[Report](#)





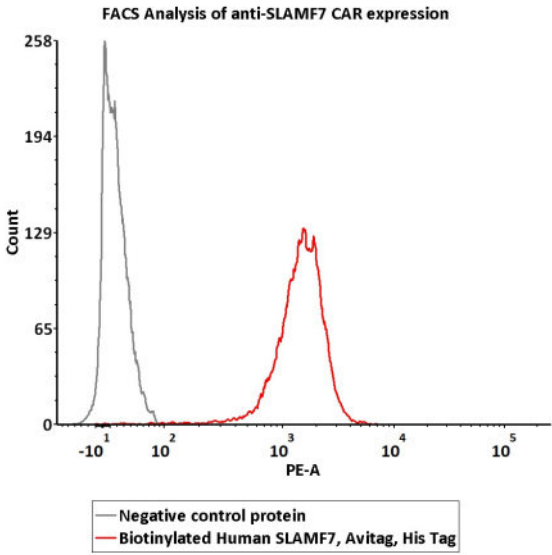
Bioactivity-ELISA



Immobilized Anti-SLAMF7/CS1 Antibody, Human IgG1 at 1 µg/mL (100 µL/well) can bind Biotinylated Human SLAMF7, Avitag,His Tag (Cat. No. SL7-H82E0) with a linear range of 0.2-2 ng/mL (QC tested).

Immobilized Humanized Anti-Human CS1 MAb at 1 µg/mL (100 µL/well) can bind Biotinylated Human SLAMF7, Avitag,His Tag (Cat. No. SL7-H82E0) with a linear range of 0.6-5 ng/mL (Routinely tested).

Bioactivity-FACS



2e5 of Anti-SLAMF7 CAR-293 cells were stained with 100 µL of 0.1 µg/mL of Biotinylated Human SLAMF7, Avitag, His Tag (Cat. No. SL7-H82E0) and negative control protein respectively, washed and then followed by PE-SA and analyzed with FACS (QC tested).

Background

SLAM family member 7 (SLAMF7) is also known as CD2-like receptor-activating cytotoxic cells (CRACC), Membrane protein FOAP-12, CD antigen CD319, Novel Ly9, Protein 19A, which is a single-pass type I membrane protein and a member of the CD2 family of cell surface receptors. SLAMF7 is expressed in spleen, lymph node, peripheral blood leukocytes, bone marrow, small intestine, stomach, appendix, lung and trachea. Isoform 1 of SLAMF7 mediates NK cell activation through a SH2D1A-independent extracellular signal-regulated ERK-mediated pathway. May play a role in lymphocyte adhesion. Isoform 3 of SLAMF7 does not mediate any NK cell activation.

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