

**Synonym**

CEACAM-5,CD66e,CEA,Meconium antigen 100

Source

Biotinylated Human CEACAM-5, His,Avitag(CE5-H82E0) is expressed from human 293 cells (HEK293). It contains AA Lys 35 - Ala 685 (Accession #

[P06731-1](#)).

Predicted N-terminus: Lys 35

Molecular Characterization

CEACAM-5(Lys 35 - Ala 685) P06731-1	Poly-his	Avi
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This protein carries a polyhistidine tag at the C-terminus, followed by an Avi tag (Avitag™).

The protein has a calculated MW of 75.0 kDa. The protein migrates as 90-120 kDa 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.

Purity

>90% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

Formulation

Lyophilized from 0.22 µm filtered solution in 20 mM Tris, 150 mM Potassium glutamate, pH7.5 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

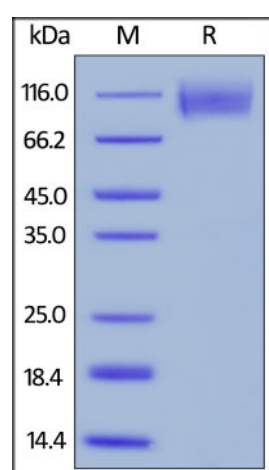
*For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.***Storage**

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

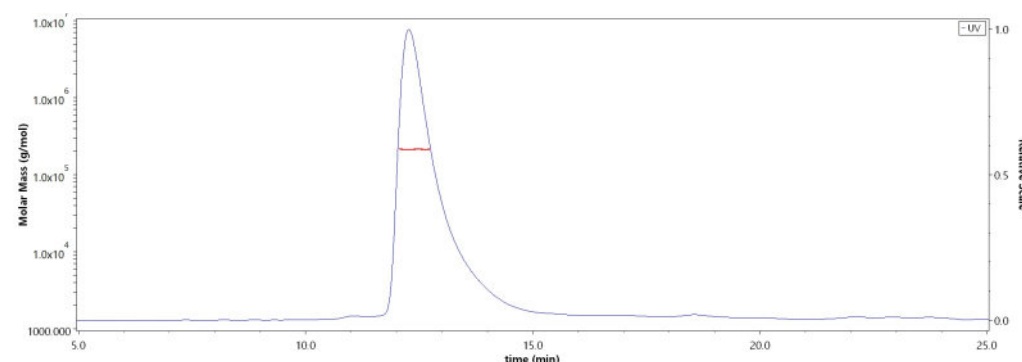
Please avoid repeated freeze-thaw cycles.

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.

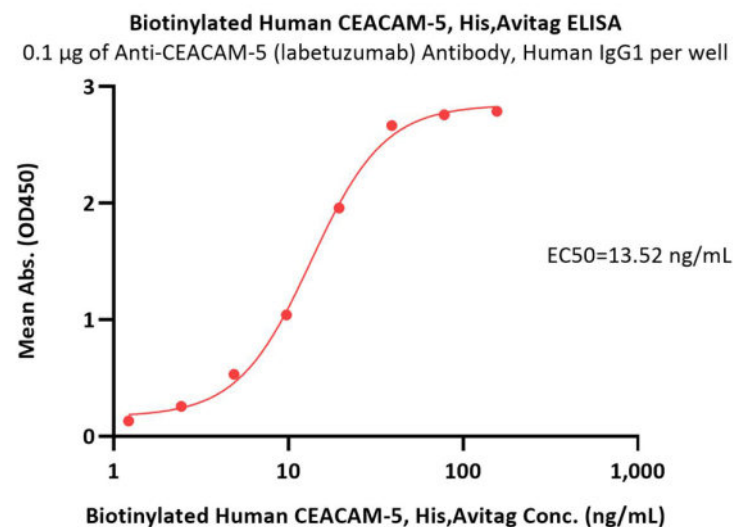
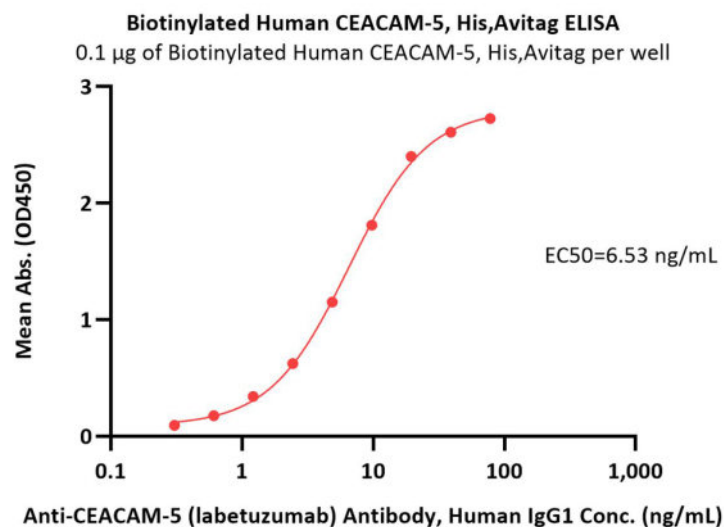
SDS-PAGE

Biotinylated Human CEACAM-5, His,Avitag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%.

Bioactivity-ELISA**SEC-MALS**

The purity of Biotinylated Human CEACAM-5, His,Avitag (Cat. No. CE5-H82E0) is more than 90% and the molecular weight of this protein is around 205-220 kDa verified by SEC-MALS.

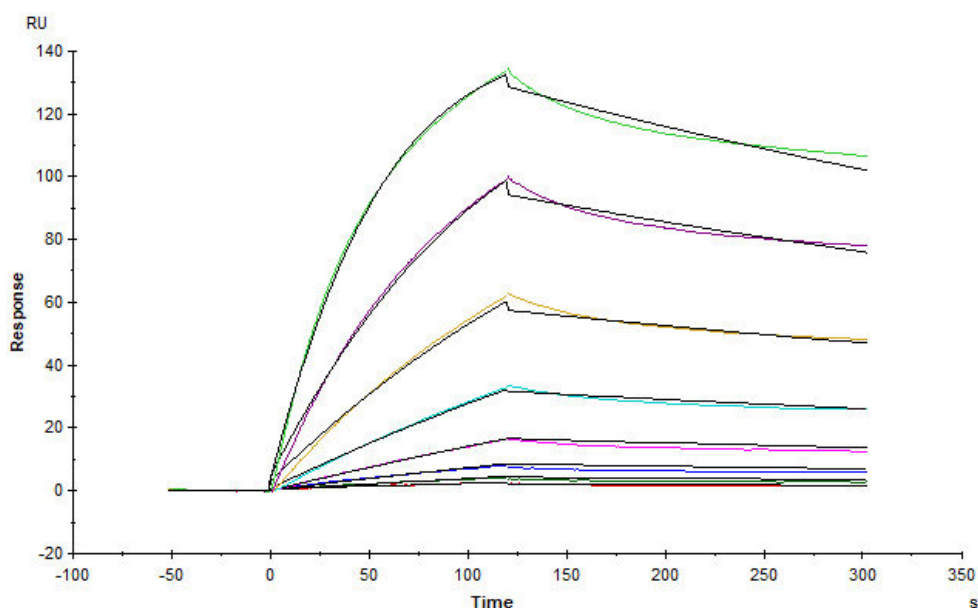
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Immobilized Biotinylated Human CEACAM-5, His,Avitag (Cat. No. CE5-H82E0) at 1 µg/mL (100 µL/well) on streptavidin (Cat. No. STN-N5116) precoated (0.5 µg/well) plate. can bind Anti-CEACAM-5 (labetuzumab) Antibody, Human IgG1 with a linear range of 0.3-10 ng/mL (QC tested).

Immobilized Anti-CEACAM-5 (labetuzumab) Antibody, Human IgG1 at 1 µg/mL (100 µL/well) can bind Biotinylated Human CEACAM-5, His,Avitag (Cat. No. CE5-H82E0) with a linear range of 0.6-20 ng/mL (Routinely tested).

Bioactivity-SPR



Anti-CEACAM-5 (labetuzumab) Antibody, Human IgG1 captured on CM5 chip via Anti-human IgG Fc antibodies surface can bind Biotinylated Human CEACAM-5, His,Avitag (Cat. No. CE5-H82E0) with an affinity constant of 12.1 nM as determined in a SPR assay (Biacore T200) (Routinely tested).

Background

Carcinoembryonic antigen-related cell adhesion molecule 5 (CEACAM5) is also Carcinoembryonic antigen (CEA), Meconium antigen 100, CD antigen CD66e, CEACAM5 belongs to the immunoglobulin superfamily and CEA family. CEACAM5 contains seven Ig-like (immunoglobulin-like) domains. CEACAM5 is homodimer protein which binding of E.coli Dr adhesins leads to dissociation of the homodimer. CEACAM5 is cell surface glycoprotein that plays a role in cell adhesion and in intracellular signaling. CEACAM5 is receptor for E.coli Dr adhesins.

Clinical and Translational Updates

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