



## Synonym

CEACAM-5, CD66e, CEA, Meconium antigen 100

## Source

Human CEACAM-5, His Tag(CE5-H5226) is expressed from human 293 cells (HEK293). It contains AA Lys 35 - Ala 685 (Accession # [P06731](#)).

Predicted N-terminus: Lys 35

## Molecular Characterization

CEACAM-5(Lys 35 - Ala 685)  
**P06731** Poly-his

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

The protein has a calculated MW of 72.2 kDa. The protein migrates as 100-130 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

## Endotoxin

Less than 0.1 EU per  $\mu$ g by the LAL method / rFC method.

## Purity

>95% as determined by SDS-PAGE.

>95% 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

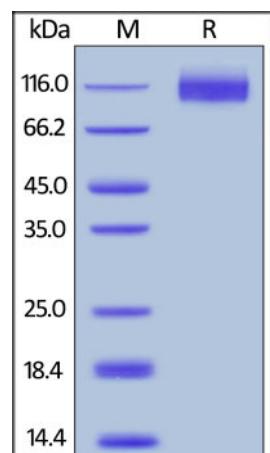
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

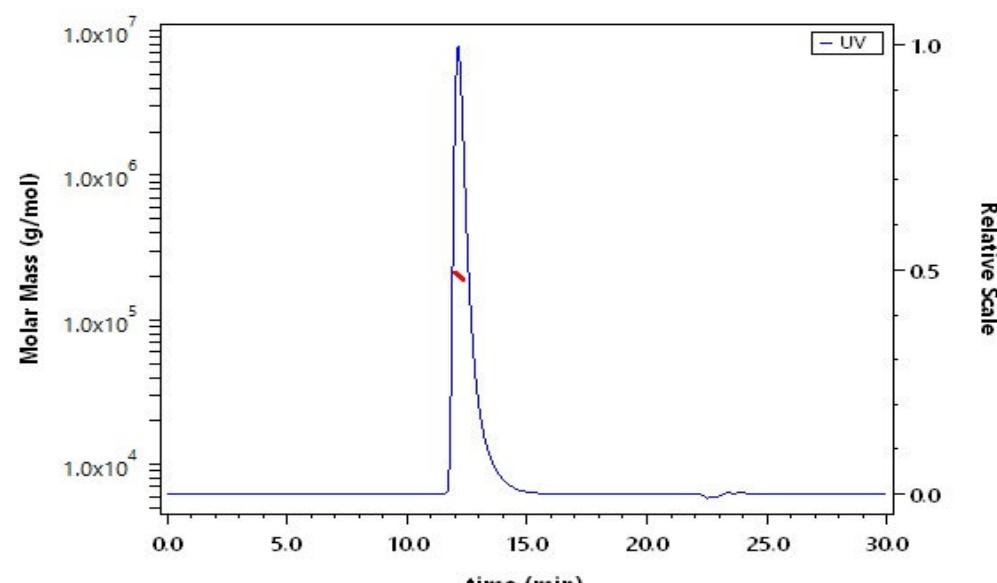
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

## SDS-PAGE



Human CEACAM-5, 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%.

## SEC-MALS



The purity of Human CEACAM-5, His Tag (Cat. No. CE5-H5226) is more than 95% and the molecular weight of this protein is around 170-200 kDa verified by SEC-MALS.

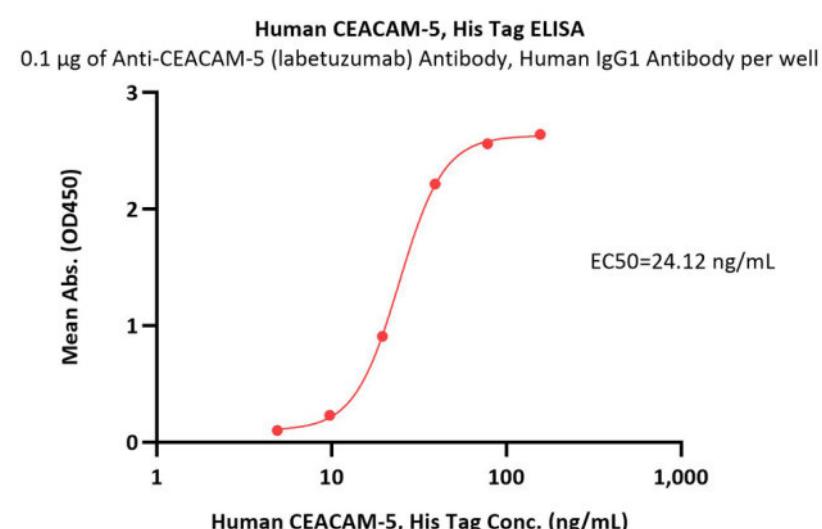
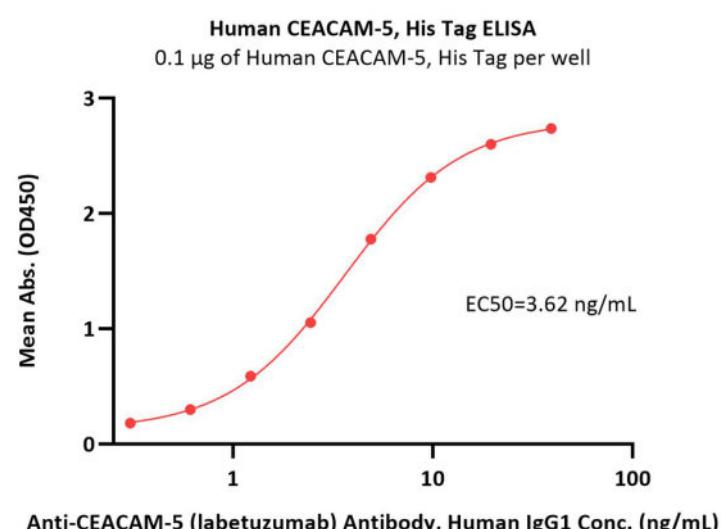
[Report](#)

## Bioactivity-ELISA

Discounts, Gifts,  
 and more!



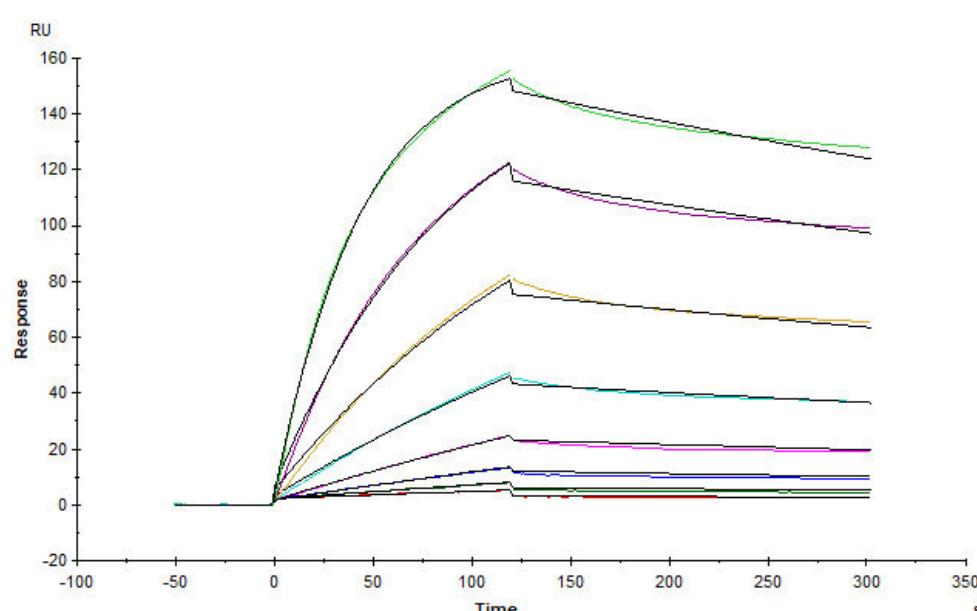
» [www.acrobiosystems.com](http://www.acrobiosystems.com)



Immobilized Human CEACAM-5, His Tag (Cat. No. CE5-H5226) at 1 µg/mL (100 µL/well) can bind Anti-CEACAM-5 (labetuzumab) Antibody, Human IgG1 with a linear range of 0.3-5 ng/mL (QC tested).

Immobilized Anti-CEACAM-5 (labetuzumab) Antibody, Human IgG1 Antibody at 1 µg/mL (100 µL/well) can bind Human CEACAM-5, His Tag (Cat. No. CE5-H5226) with a linear range of 10-39 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 Human CEACAM-5, His Tag (Cat. No. CE5-H5226) with an affinity constant of 8.41 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.

Discounts, Gifts,  
and more!

