



## Synonym

CEACAM-5,CD66e,CEA,Meconium antigen 100

## Source

FITC-Labeled Human CEACAM-5, His Tag (CE5-HF254) is expressed from human 293 cells (HEK293). It contains AA Lys 35 - Ala 685 (Accession # [P06731-1](#)). It is the FITC labeled form of Human CEACAM-5, His Tag (Cat. No. CE5-H5226).

Predicted N-terminus: Lys 35

## Molecular Characterization

CEACAM-5(Lys 35 - Ala 685)	Poly-his
P06731-1	

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

The protein has a calculated MW of 72.15 kDa. The protein migrates as 90-130 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

The protein is designed as a dimer.

## Conjugate

FITC

Excitation source: 488 nm spectral line, argon-ion laser

Excitation Wavelength: 488 nm

Emission Wavelength: 535 nm

## Labeling

*The primary amines in the side chains of lysine residues and the N-terminus of the protein are conjugated with FITC using standard chemical labeling method. The residual FITC is removed by molecular sieve treatment during purification process.*

## Protein Ratio

The FITC to protein molar ratio is 1-3.

## Purity

>90% as determined by SDS-PAGE.

>90% 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

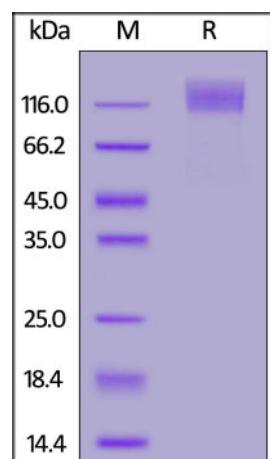
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please protect from light and 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



## SEC-MALS

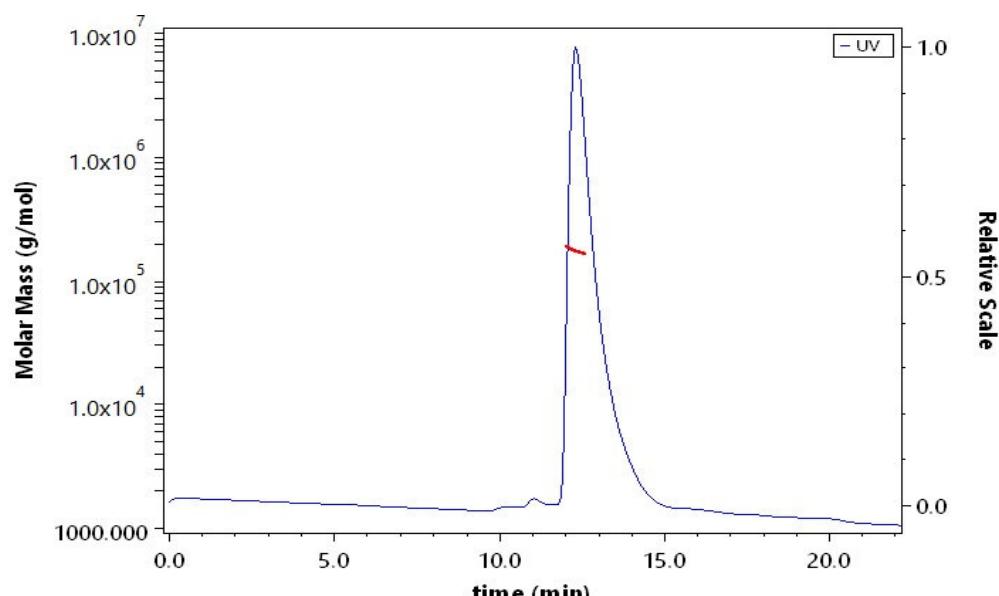
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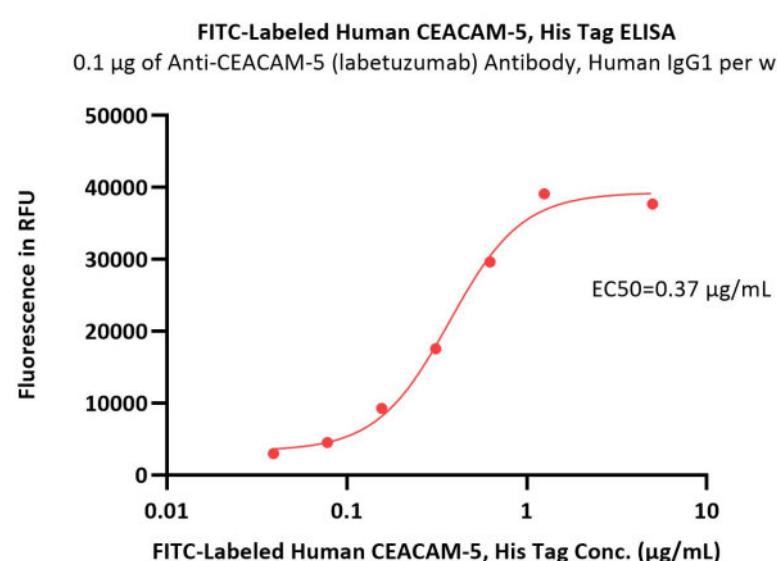
FITC-Labeled Human CEACAM-5, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%.



The purity of FITC-Labeled Human CEACAM-5, His Tag (Cat. No. CE5-HF254) is more than 90% and the molecular weight of this protein is around 160-180 kDa verified by SEC-MALS.

[Report](#)

## Bioactivity-ELISA



Immobilized Anti-CEACAM-5 (labetuzumab) Antibody, Human IgG1 at 1 µg/mL (100 µL/well) can bind FITC-Labeled Human CEACAM-5, His Tag (Cat. No. CE5-HF254) with a linear range of 0.039-0.625 µg/mL (QC 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.

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