



### Synonym

CEACAM-5,CD66e,CEA,Meconium antigen 100

### Source

Human CEACAM-5 (499-685) Protein, His Tag(CE5-H52H8) is expressed from human 293 cells (HEK293). It contains AA Glu 499 - Ala 685 (Accession # [P06731-1](#)).

Predicted N-terminus: Glu 499

### Molecular Characterization

CEACAM-5(Glu 499 - Ala 685)	Poly-his
P06731-1	

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

The protein has a calculated MW of 21.9 kDa. The protein migrates as 40-55 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.

### 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

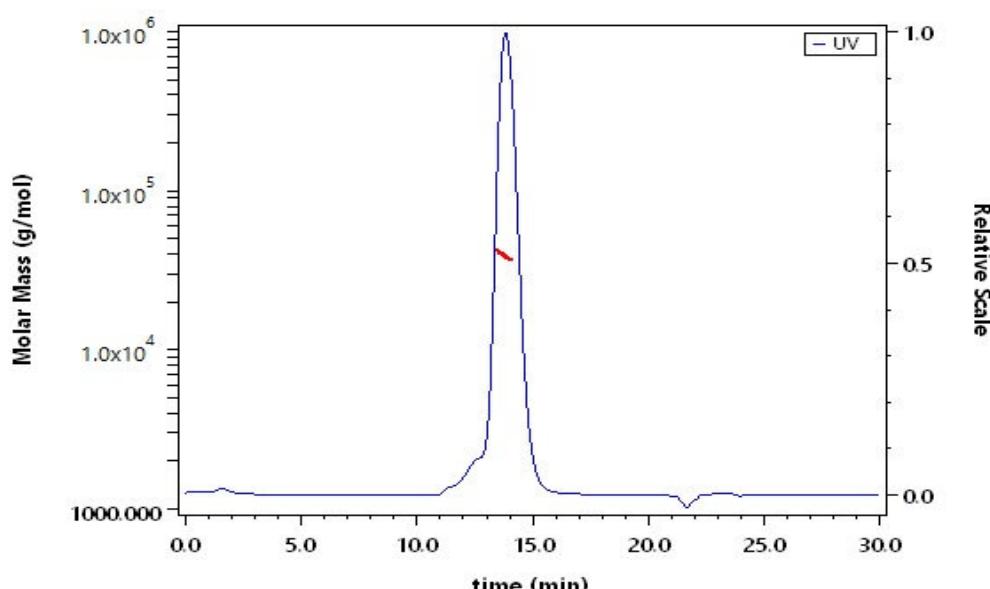
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*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.

### SEC-MALS



The purity of Human CEACAM-5 (499-685) Protein, His Tag (Cat. No. CE5-H52H8) is more than 85% and the molecular weight of this protein is around 33-45 kDa verified by SEC-MALS.

[Report](#)

### Bioactivity-ELISA

Immobilized Human CEACAM-5 (499-685) Protein, His Tag (Cat. No. CE5-H52H8) at 1  $\mu$ g/mL (100  $\mu$ L/well) can bind Monoclonal Anti-Human CEACAM5 Antibody, Human IgG1 with a linear range of 0.076-1 ng/mL (QC tested).

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## 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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