

# Human CEACAM-7 Protein

Cat. No. CEA-HM207



## Description

<b>Source</b>	Recombinant Human CEACAM-7 Protein is expressed from HEK293 with hFc tag at the C-terminus. It contains Thr36-Ser242.
<b>Accession</b>	Q14002-1
<b>Molecular Weight</b>	The protein has a predicted MW of 50.11 kDa. Due to glycosylation, the protein migrates to 68-78 kDa based on Tris-Bis PAGE result.
<b>Endotoxin</b>	Less than 1EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

## Formulation and Storage

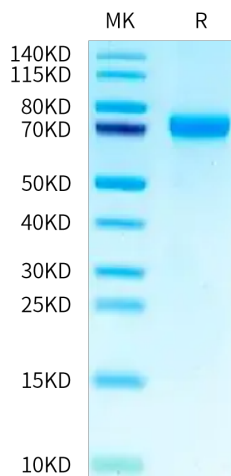
<b>Formulation</b>	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3-6 months after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

Carcinoembryonic antigen-related cell adhesion molecules (CEACAMs) belong to a group of mammalian immunoglobulin-related glycoproteins. They are involved in cell-cell recognition and modulate cellular processes that range from the shaping of tissue architecture and neovascularization to the regulation of insulin homeostasis and T-cell proliferation. CEACAM7 (CGM2), a member of the CEA family of proteins with expression restricted to the colon and pancreas, as a potential CAR T-cell target for PDAC.

## Assay Data

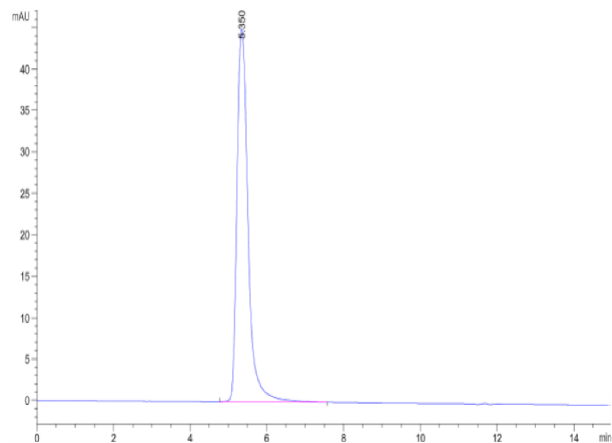
### Tris-Bis PAGE



Human CEACAM-7 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC

Assay Data



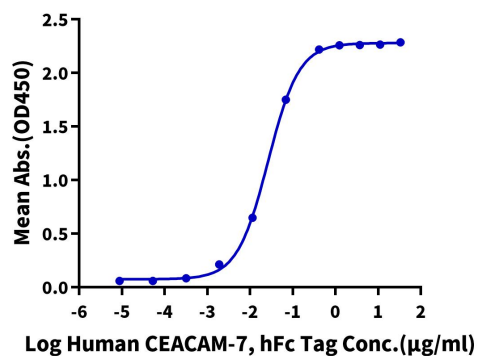
The purity of Human CEACAM-7 is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

**Human CEACAM-7, hFc Tag ELISA**

0.1µg Human CEACAM-3, His Tag Per Well



Immobilized Human CEACAM-3, His Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Human CEACAM-7, hFc Tag with the EC50 of 26.5ng/ml determined by ELISA.