

# Biotinylated Human CEACAM-5/CD66e Protein

Cat. No. CAM-HM415B

## Description

<b>Source</b>	Recombinant Biotinylated Human CEACAM-5/CD66e Protein is expressed from HEK293 with His tag and Avi tag at the C-terminus. It contains Lys35-Ala685.
<b>Accession</b>	P06731-1
<b>Molecular Weight</b>	The protein has a predicted MW of 74.23 kDa. Due to glycosylation, the protein migrates to 110-150 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

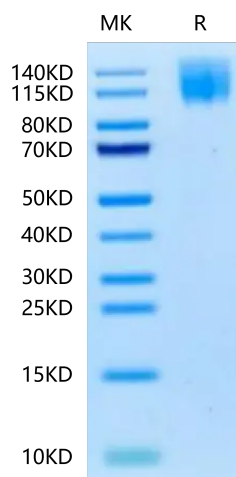
<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in 20mM PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -20 to -80°C for 3-6 months in unopened state 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 molecule 5 (CEACAM5) was identified as a metastatic driver. CEACAM5 overproduction enriched for an epithelial gene expression pattern and facilitated tumor outgrowth at metastatic sites. Tissues from patients with metastatic breast cancer confirmed elevated levels of CEACAM5 in lung metastases relative to breast tumors, and an inverse correlation between CEACAM5 and the mesenchymal marker vimentin was demonstrated.

## Assay Data

### Tris-Bis PAGE



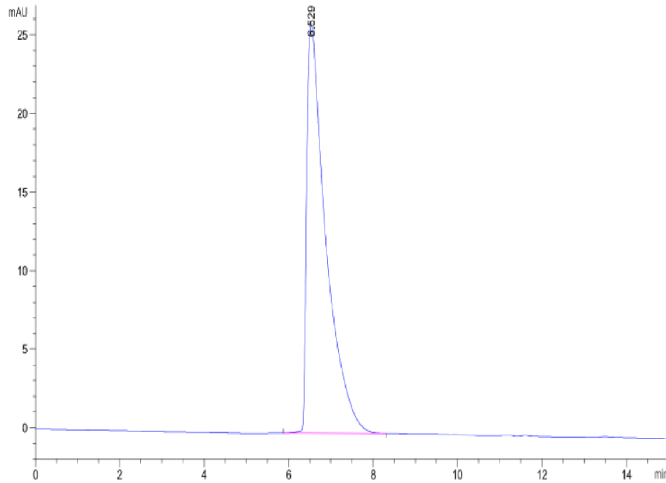
Biotinylated Human CEACAM-5 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC

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## Assay Data

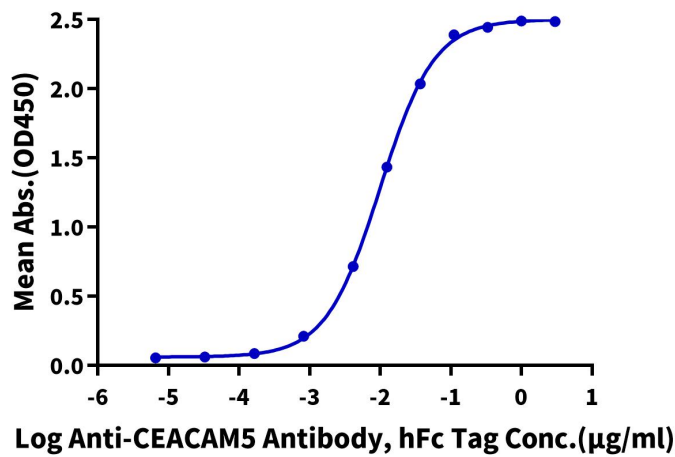


The purity of Biotinylated Human CEACAM-5 is greater than 95% as determined by SEC-HPLC.

## ELISA Data

### Biotinylated Human CEACAM5, His Tag ELISA

0.2µg Biotinylated Human CEACAM5, His Tag Per Well



Immobilized Biotinylated Human CEACAM-5, His Tag at 2µg/ml (100µl/well) on the streptavidin precoated plate (5µg/ml). Dose response curve for Anti-CEACAM Antibody, hFc Tag with the EC50 of 10.4ng/ml determined by ELISA.