

Biotinylated Human CEACAM-5/CD66e Protein

Cat. No. CAM-HM405B

Description	
Source	Recombinant Biotinylated Human CEACAM-5/CD66e Protein is expressed from Expi293 with His tag and Avi tag at the C-terminal. It contains Lys35-Ala685.
Accession	Q8N4D0
Molecular Weight	The protein has a predicted MW of 74.2 kDa. Due to glycosylation, the protein migrates to 115-145 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

Formulation and Storage	
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 5% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge tubes before opening. Reconstituting to a concentration more than 100 µg/ml is recommended (usually we use 1mg/ml solution for lyophilization). Dissolve the lyophilized protein in distilled water.
Storage	-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 avoid 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



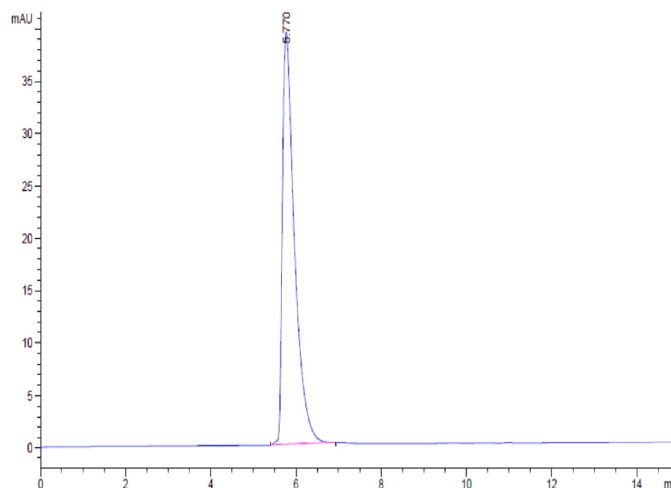
Biotinylated Human CEACAM-5 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

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Assay Data

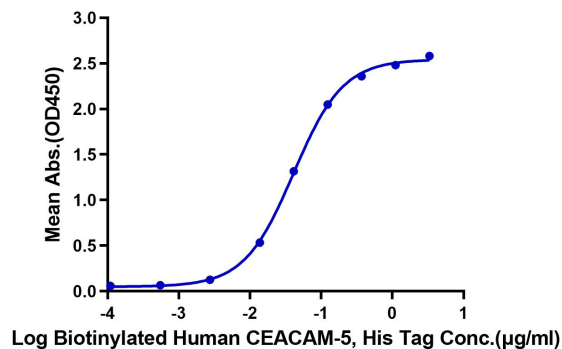


The purity of Biotinylated Human CEACAM-5 is greater than 95% as determined by SEC-HPLC.

ELISA Data

Biotinylated Human CEACAM-5, His Tag ELISA

0.05 μ g Anti-CEACAM-5 Antibody, hFc Tag Per Well



Immobilized Anti-CEACAM-5 Antibody, hFc Tag at 0.5 μ g/ml (100 μ l/well) on the plate. Dose response curve for Biotinylated Human CEACAM-5, His Tag with the EC50 of 41.1ng/ml determined by ELISA.