

# Human CEACAM-3 Protein

Cat. No. CEA-HM103

## Description

<b>Source</b>	Recombinant Human CEACAM-3 Protein is expressed from HEK293 with His tag at the C-terminus. It contains Lys35-Gly155.
<b>Accession</b>	P40198-1
<b>Molecular Weight</b>	The protein has a predicted MW of 14.19 kDa. Due to glycosylation, the protein migrates to 17-27 kDa based on Tris-Bis PAGE result.
<b>Endotoxin</b>	Less than 1EU per $\mu\text{g}$ by the LAL method.
<b>Purity</b>	> 95% as determined by Tris-Bis PAGE

## Formulation and Storage

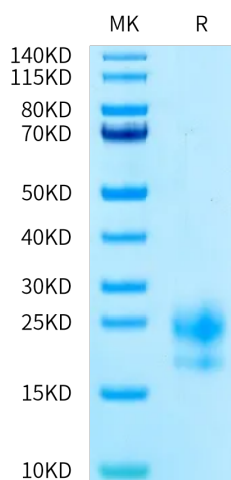
<b>Formulation</b>	Lyophilized from 0.22 $\mu\text{m}$ filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended. 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

The human granulocyte-specific receptor carcinoembryonic antigen-related cell adhesion molecule (CEACAM)3 is critically involved in the opsonin-independent recognition of several bacterial pathogens. CEACAM3-mediated phagocytosis depends on the integrity of an ITAM-like sequence within the cytoplasmic domain of CEACAM3 and is characterized by rapid stimulation of the GTPase Rac.

## Assay Data

### Tris-Bis PAGE

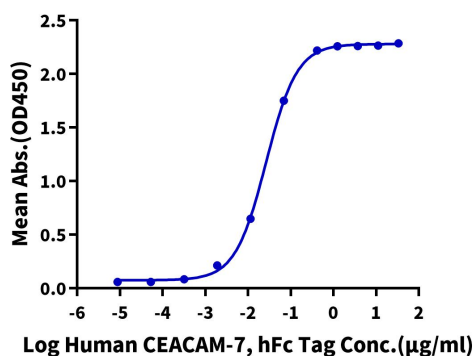


Human CEACAM-3 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

### ELISA Data

#### Human CEACAM-3, His Tag ELISA

0.1 $\mu\text{g}$  Human CEACAM-3, His Tag Per Well



Immobilized Human CEACAM-3, His Tag at 1 $\mu\text{g}/\text{ml}$  (100 $\mu\text{l}/\text{well}$ ) on the plate. Dose response curve for Human CEACAM-7, hFc Tag with the EC50 of 26.5ng/ml determined by ELISA.