

# Human CEACAM-3/CD66d Protein

Cat. No. CEA-HM103

## Description

<b>Source</b>	Recombinant Human CEACAM-3/CD66d 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 Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1 EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE

## Formulation and Storage

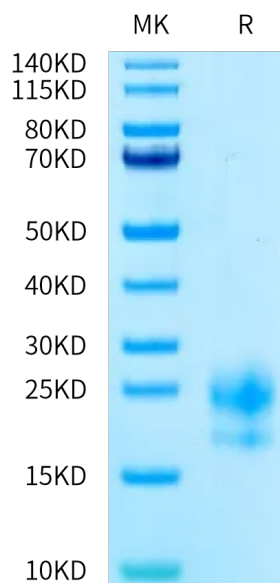
<b>Formulation</b>	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months 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

### Bis-Tris PAGE



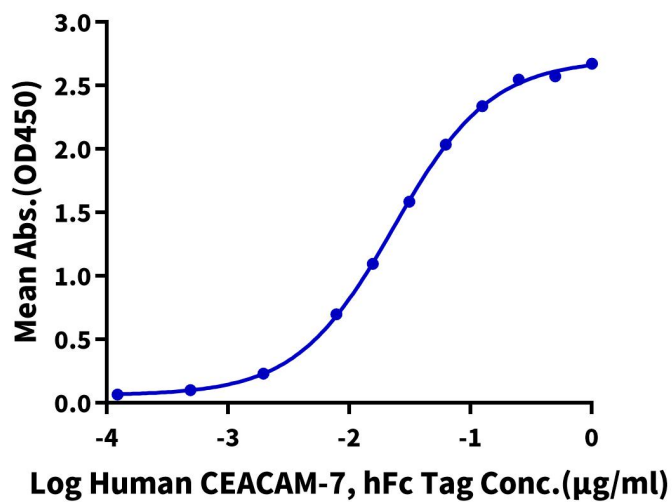
Human CEACAM-3 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### ELISA Data

Assay Data

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

0.2µg Human CEACAM-3, His Tag Per Well



Immobilized Human CEACAM-3, His Tag at 2µg/ml (100µl/well) on the plate. Dose response curve for Human CEACAM-7, hFc Tag with the EC50 of 23.2ng/ml determined by ELISA.