Human CEACAM-3 Protein

Cat. No. CEA-HM203

Description

Source	Recombinant Human CEACAM-3 Protein is expressed from HEK293 with hFc tag at the C-terminus.
	It contains Lys35-Gly155.
Accession	P40198-1
Molecular Weight	The protein has a predicted MW of 39.85 kDa. Due to glycosylation, the protein migrates to 50-60 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

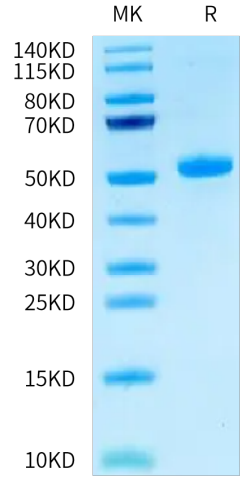
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-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.

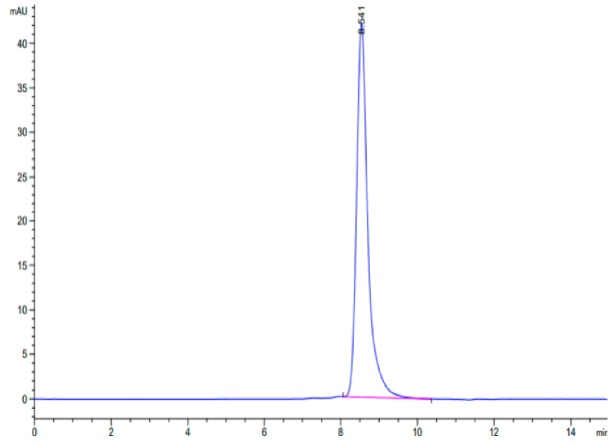
Assay Data

Tris-Bis PAGE



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

SEC-HPLC



The purity of Human CEACAM-3 is greater than 95% as determined by SEC-HPLC.

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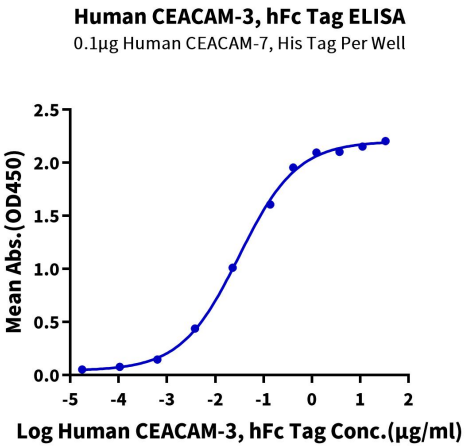
Assay Data

ELISA Data



Immobilized Human CEACAM-7, His Tag at 1μg/ml (100μl/well) on the plate. Dose response curve for Human CEACAM-3, hFc Tag with the EC50 of 31.1ng/ml determined by ELISA.