

Recombinant Human CEACAM-3 Protein

Catalog No.: RP00517 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	1084	P40198-1

Tags

C-hFc

Synonyms

CEACAM3; CD66d; CGM1; CEA;

Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE > 95% by HPLC

Endotoxin

< 1 EU/μg of the protein by LAL method

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 vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

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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.

Basic Information

Description

Recombinant Human CEACAM-3 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Lys35-Gly155) of Human CEACAM-3 (Accession #P40198-1) fused with a C-hFc tag at the C-terminus.

Bio-Activity

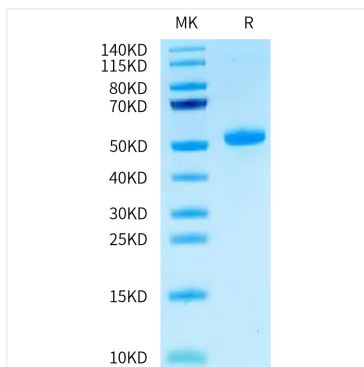
Storage

Store the lyophilized protein at -20°C to -80°C for 12 months.

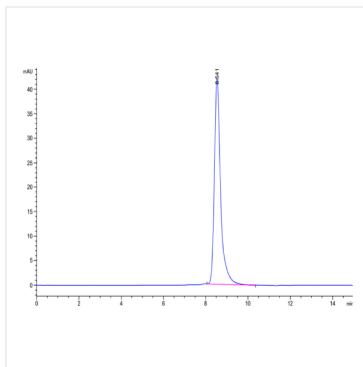
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

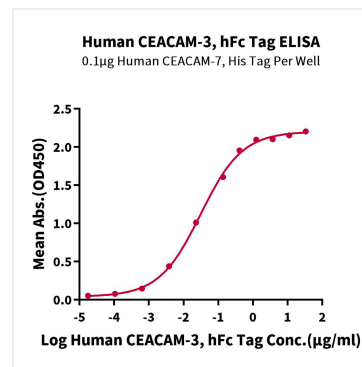
Validation Data



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



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



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