

Recombinant Human CEACAM3/CD66d Protein

Catalog No.: RP00517

Sequence Information

Species	Gene ID
Human	1084
Swiss Prot	Tags
P40198-1	C-hFc

Synonyms

CEACAM3; CD66d; CGM1; CEA;

Product Information

Source	Purification
HEK293 cells	≥ 95 % as determined by SDS-PAGE; ≥ 95 % as determined by HPLC.

Calculated MW	Observed MW
39.85 kDa	50–60 kDa

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.

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 CEACAM3/CD66d Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Lys35–Gly155) of Human CEACAM3/CD66d (Accession #P40198-1) fused with a C-hFc tag at the C-terminus.

Activity

Shipping

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at –20°C

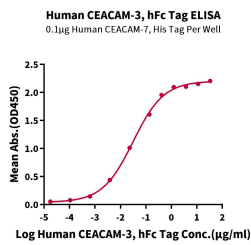
Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

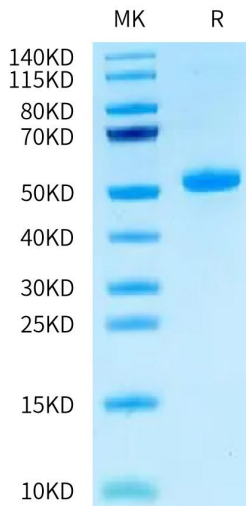
Contact

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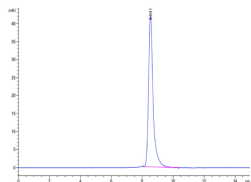
Validation Data



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.



Recombinant Human CEACAM3/CD66d Protein was determined by Tris-Bis PAGE under reducing conditions.



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