Recombinant Human CEACAM1/CD66a Protein

Catalog No.: RP00294

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Sequence Information

Species
Human

Gene ID
634

Swiss Prot
P13688-1

Tags
C-His

Synonyms
BGP, BGP1, BGPI,CEACAM1,BGP1, BGPI

Product Information

Source
HEK293 cells

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MW
44.14 kDa

Observed MW
60-80 kDa

Endotoxin
Please contact us for more information.

Formulation
Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.Contact us for customized product form or formulation.

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 stablizer (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 secreted recombinant human CEACAM1 comprises 405amino acids with a molecular weight of 45 kDa. The apparent molecular mass of recombinant human CEACAM1 is about 65-85 kDa in SDS-PAGE under reducing conditions due to glycosylation.Carcinoembryonic antigen-related cell adhesion molecule 1 (CEACAM1) is also known as Biliary glycoprotein 1 (BGP1), CD66a belonging to the immunoglobulin superfamily or CEA family. CEACAM1 /CD66a contains three Ig-like C2-type (immunoglobulin-like) domains and one Ig-like V-type (immunoglobulin-like) domain. CEACAM1 is a surface glycoprotein expressed on various blood cells, epithelial cells, and vascular cells and was described as an adhesion molecule mediating cell adhesion via both homophilic and heterophilic manners, and was detected on leukocytes, epithelia, and endothelia.The carcinoembryonic-antigen-related cell-adhesion molecule (CEACAM) family of proteins has been implicated in various intercellular-adhesion and intracellular-signalling-mediated effects that govern the growth and differentiation of normal and cancerous cells. Studies have revealed that CEACAM1 performs actions in multiple cellular processes including tissue differentiation, angiogenesis, apoptosis, metastasis, as well as the modulation of innate and adaptive immune responses.

Basic Information

Description
Recombinant Human CEACAM1/CD66a Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Gln35-Gly428) of human CEACAM1 (Accession #NP_001703.2) fused with a 6×His tag at the C-terminus.

Activity
Measured by its binding ability in a functional ELISA. Immobilized Recombinant Human CEACAM1 at 5 μg/mL (100 μL/well) can bind Recombinant Human CEACAM8 with a linear range of 0.5-3 μg/mL.

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℃

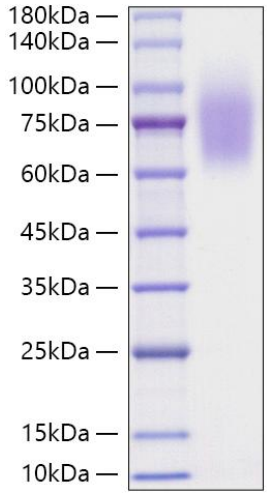
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

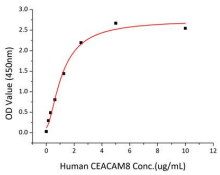
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Validation Data



Recombinant Human CEACAM1/CD66a Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



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