

A Reliable Research Partner in Life Science and Medicine

Recombinant Rat CEACAM-1/CD66a Protein(Fc Tag)

Catalog Number: PDMR100063

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Species Rat

Source HEK293 Cells-derived Rat CEACAM-1/CD66a proteins Gln35-Ala425, with an C-

terminal Fc

Calculated MW67.9 kDaObserved MW90 kDaAccessionP16573

Bio-activity Not validated for activity

Properties

Purity > 90% as determined by reducing SDS-PAGE.

Endotoxin < 1.0 EU/mg of the protein as determined by the LAL method

Storage Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -

80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of

reconstituted samples are stable at < -20°C for 3 months.

Shipping

This product is provided as lyophilized powder which is shipped with ice packs.

Formulation

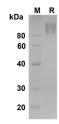
Lyophilized from a 0.2 µm filtered solution in PBS with 5% Trehalose and 5%

Mannitol.

Reconstitution It is recommended that sterile water be added to the vial to prepare a stock solution

of 0.5 mg/mL. Concentration is measured by UV-Vis.

Data



SDS-PAGE analysis of Rat CEACAM-1/CD66a proteins , $2\mu g$ /lane of Recombinant Rat CEACAM-1/CD66a proteins was resolved with SDS-PAGE under reducing conditions , showing bands at 90 KD

Background

For Research Use Only

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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. CEACAM1 , also known as biliary glycoprotein I (BGP I) and CD66a , is a member of the carcinoembryonic antigen (CEA) gene family which belongs to the immunoglobulin superfamily. The highly glycosylated CEACAM1 contains one N-terminal V-type Ig-like domain and three C2-type Ig-like domains within its ECD , and one ITIM motif and a calmodulin binding site in the cytoplasmic region. CEACAM1 is a surface glycoprotein expressed on various blood cells , epithelial cells , and vascular cells. It was described as an adhesion molecule mediating cell adhesion via both homophilic and heterophilic manners , and was detected on leukocytes , epithelia , and endothelia. 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.

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