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# Recombinant Rat CEACAM1/CD66a protein (His Tag)

Catalog Number: PDMR100013

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

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**Species** Rat

Source HEK293 Cells-derived Rat CEACAM1/CD66a protein Gln35-Ala425, with an C-terminal

His

Calculated MW 42.9 kDa
Observed MW 60-80 kDa
Accession P16573

**Bio-activity** Not validated for activity

#### **Properties**

**Purity** > 85% 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.

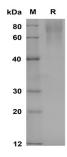
ShippingThis product is provided as lyophilized powder which is shipped with ice packs.FormulationLyophilized from a 0.2 μm filtered solution in PBS with 5% Trehalose and 5%

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 CEACAM1/CD66a proteins, 2µg/lane of Recombinant Rat CEACAM1/CD66a proteins was resolved with SDS-PAGE under reducing conditions, showing bands at 60-80 KD.

#### Background

# Elabscience®

## Elabscience Biotechnology Co., Ltd.

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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 EC D, 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.