

Recombinant Human CEACAM1 protein, His-tagged

Cat. No. CEACAM1-8192H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CEACAM1 aa. (Gln35~Glu320 (Accession # P13688)) fused with N-terminal His tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Gln35~Glu320
Description	This gene encodes a member of the carcinoembryonic antigen (CEA) gene family, which belongs to the immunoglobulin superfamily. Two subgroups of the CEA family, the CEA cell adhesion molecules and the pregnancy-specific glycoproteins, are located within a 1.2 Mb cluster on the long arm of chromosome 19. Eleven pseudogenes of the CEA cell adhesion molecule subgroup are also found in the cluster. The encoded protein was originally described in bile ducts of liver as biliary glycoprotein. Subsequently, it was found to be a cell-cell adhesion molecule detected on leukocytes, epithelia, and endothelia. The encoded protein mediates cell adhesion via homophilic as well as heterophilic binding to other proteins of the subgroup. Multiple cellular activities have been attributed to the encoded protein, including roles in the differentiation and arrangement of tissue three-dimensional structure, angiogenesis, apoptosis, tumor suppression, metastasis, and the modulation of innate and adaptive immune responses. Multiple transcript variants encoding different isoforms have been reported, but the full-length nature of all variants has not been defined.

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Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 33.0kDa.
Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Purity	>95%
Characteristic	The isoelectric point is 5.2.
Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage Buffer	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.
GENE INFORMATION	
Gene Name	CEACAM1 carcinoembryonic antigen related cell adhesion molecule 1 [Homo sapiens (human)]

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Official Symbol	CEACAM1
Synonyms	CEACAM1; carcinoembryonic antigen related cell adhesion molecule 1; BGP; BGP1; BGPI; carcinoembryonic antigen-related cell adhesion molecule 1; CD66a antigen; antigen CD66; carcinoembryonic antigen-related cell adhesion molecule 1 (biliary glycoprotein)
Gene ID	634
mRNA Refseq	NM_001024912.2
Protein Refseq	NP_001020083.1
UniProt ID	P13688
SDS-PAGE	