Carcinoembryonic Antigen-Related Cell Adhesion Molecule 3 (CEACAM3) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	Carcinoembryonic Antigen-Related Cell Adhesion Molecule 3 (CEACAM3), Recombinant Protein
Full Product Name	Recombinant Human Carcinoembryonic Antigen-Related Cell Adhesion Molecule 3
Product Gene Name	CEACAM3 recombinant protein
Product Synonym Names	Carcinoembryonic Antigen-Related Cell Adhesion Molecule 3; Carcinoembryonic Antigen CGM1; CD66d Antigen; CD66D; CGM1; Carcinoembryonic Antigen Gene Family Member 1; Nonspecific Cross-Reacting Antigen; W264; W282; CEA; CEACAM3; CEACAM3 Human, Sf9; Carcinoembryonic Antigen-Related Cell Adhesion Molecule 3 Human Recombinant, Sf9
Sequence	ADP KLTIESM PLSVAEGKEV LLLVHNLPQH LFGYSWYKGE RVDGNSLIVG YVIGTQQATP GAAYSGRETI YTNASLLIQN VTQNDIGFYT LQVIKSDLVN EEATGQFHVY QENAPGLPVG AVAGHHHHHH
Host	Sf9, Baculovirus cells
Form/Format	Sterile filtered colorless solution Protein solution (1mg/ml) contains Phosphate Buffered Saline (pH 7.4) and 10% glycerol
Purity/Purification	Greater than 95.0% as determined by SDS-PAGE
Preparation and Storage	Store at 4 degree C if entire vial will be used within 2-4 weeks. Store, frozen at-20 degree C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles
Molecular Weight	22,754 Da
OMIM	D90277 mRNA
3D Structure	ModBase 3D Structure for P40198
Product Categories/Family for CEACAM3 recombinant protein	Recombinant & Natural Proteins; Recombinant Proteins; CEA; CEACAM3 Human; Sf9
Related Product Information for CEACAM3 recombinant protein	Description: CEACAM3 Human Recombinant produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 130 amino acids (35-155a.a.) and having a molecular mass of 14.2kDa (Molecular size on SDS-PAGE will appear at approximately 13.5-18kDa). CEACAM3 is expressed with a 6 amino acids His tag at C-Terminus and purified by proprietary chromatographic techniques. Introduction: Carcinoembryonic Antigen-Related Cell Adhesion Molecule 3, also known as CEACAM3, is a member of the immunoglobulin super family. The genes in this family encode cell adhesion proteins, which are expressed at higher levels in tumorous tissues rather than in normal tissues. CEACAM3 plays a significant part in the clearance of pathogens through the innate immune system. In addition, CEACAM3 is accountable for RAC1 stimulation in the course of pathogen phagocytosis.
Other Notes	Small volumes of CEACAM3 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CEACAM3 purchase	MBS147232 is a recombinant protein targeting CEACAM3. Also known as Recombinant Human Carcinoembryonic Antigen-Related Cell Adhesion Molecule 3. Host: Sf9, Baculovirus cells.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CEACAM3. It may not necessarily be applicable to this product.

NCBI GI #	218511974
NCBI GeneID	1084
NCBI Accession #	P40198.2
UniProt Primary Accession #	P40198
UniProt Secondary Accession #	Q3KPH9; G5E978
UniProt Related Accession #	P40198
NCBI Official Full Name	Carcinoembryonic antigen-related cell adhesion molecule 3
NCBI Official Synonym Full Names	carcinoembryonic antigen related cell adhesion molecule 3
NCBI Official Symbol	CEACAM3
NCBI Official Synonym Symbols	CEA; CGM1; W264; W282; CD66D
UniProt Protein Name	Carcinoembryonic antigen-related cell adhesion molecule 3
UniProt Synonym Protein Names	Carcinoembryonic antigen CGM1; CD_antigen: CD66d
Protein Family	Carcinoembryonic antigen-related cell adhesion molecule
UniProt Gene Name	CEACAM3
UniProt Synonym Gene Names	CD66D; CGM1
NCBI Protein Information	carcinoembryonic antigen-related cell adhesion molecule 3
NCBI Summary for CEACAM3	This gene encodes a member of the family of carcinoembryonic antigen-related cell adhesion molecules (CEACAMs), which are used by several bacterial pathogens to bind and invade host cells. The encoded transmembrane protein directs phagocytosis of several bacterial species that is dependent on the small GTPase Rac. It is thought to serve an important role in controlling human-specific pathogens by the innate immune system. Alternatively spliced transcript variants have been described. [provided by RefSeq, Mar 2013]
UniProt Comments for CEACAM3	Major granulocyte receptor mediating recognition and efficient opsonin-independent phagocytosis of CEACAM-binding microorganisms, including Neissiria, Moxarella and Haemophilus species, thus playing an important role in the clearance of pathogens by the innate immune system. Responsible for RAC1 stimulation in the course of pathogen phagocytosis.
Research Articles on CEACAM3	**1.** Here, the authors identify members of the carcinoembryonic antigen-related cell adhesion molecule (CEACAM) family as receptors of Helicobacter pylori and show that HopQ is the surface-exposed adhesin that specifically binds human CEACAM1, CEACAM3, CEACAM5 and CEACAM6.
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