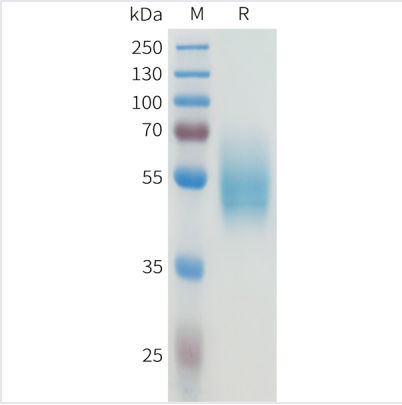
CEACAM5 Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	CEACAM5, Recombinant Protein
Full Product Name	Human CEACAM5 (496-592) Protein, hFc Tag
Product Gene Name	CEACAM5 recombinant protein
Product Synonym Names	CEA; CD66e; Recombinant human CEACAM5 (496-592) Protein with C-terminal human Fc tag
Sequence	CEACAM5 (Val496-Gl y592) hFc (Glu99-Ala 330)
Host	HEK293
Form/Format	Lyophilized from sterile PBS, pH 7.4. Normally 5% – 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution.
Purity/Purification	The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.
Preparation and Storage	Store at -20 degree C to -80 degree C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80 degree C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.
Molecular Weight	76,795 Da
OMIM	114890
3D Structure	ModBase 3D Structure for P06731
Tag	C-Human Fc
Product Categories/Family for CEACAM5 recombinant protein	ECD Proteins
Related Product Information for CEACAM5 recombinant protein	This gene encodes a cell surface glycoprotein that represents the founding member of the carcinoembryonic antigen (CEA) family of proteins. The encoded protein is used as a clinical biomarker for gastrointestinal cancers and may promote tumor development through its role as a cell adhesion molecule. Additionally, the encoded protein may regulate differentiation, apoptosis, and cell polarity. This gene is present in a CEA family gene cluster on chromosome 19. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2015]
Other Notes	Small volumes of CEACAM5 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 CEACAM5 purchase	MBS1884064 is a recombinant protein targeting CEACAM5. Also known as Human CEACAM5 (496-592) Protein, hFc Tag. Host: HEK293.



SDS-PAGE of CEACAM5 recombinant protein
Figure 1. Human CEACAM5(496-592) Protein, hFc Tag on SDS-PAGE under reducing condition.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CEACAM5. It may not necessarily be applicable to this product.

NCBI GI #	317373456
NCBI GeneID	1048
NCBI Accession #	P06731.3
UniProt Primary Accession #	P06731
UniProt Secondary Accession #	H9KVA7
UniProt Related Accession #	P06731
NCBI Official Full Name	Carcinoembryonic antigen-related cell adhesion molecule 5
NCBI Official Synonym Full Names	carcinoembryonic antigen-related cell adhesion molecule 5
NCBI Official Symbol	CEACAM5
NCBI Official Synonym Symbols	CEA; CD66e
UniProt Protein Name	Carcinoembryonic antigen-related cell adhesion molecule 5
UniProt Synonym Protein Names	Carcinoembryonic antigen; CEA; Meconium antigen 100
Protein Family	Carcinoembryonic antigen-related cell adhesion molecule
UniProt Gene Name	CEACAM5
UniProt Synonym Gene Names	CEA; CEA
UniProt Entry Name	CEAM5_HUMAN
NCBI Protein Information	carcinoembryonic antigen-related cell adhesion molecule 5; meconium antigen 100
NCBI Summary for CEACAM5	Members of the CEACAM subfamily, including CEACAM5, belong to the CEA gene family. For general information on the CEA gene family, see CEACAM1 (MIM 109770).[supplied by OMIM, Oct 2009]

UniProt Comments for CEACAM5	CEACAM5: Cell surface glycoprotein that plays a role in cell adhesion and in intracellular signaling. Receptor for E.coli Dr adhesins. Homodimer. Binding of E.coli Dr adhesins leads to dissociation of the homodimer. Found in adenocarcinomas of endodermally derived digestive system epithelium and fetal colon. Belongs to the immunoglobulin superfamily. CEA family. Protein type: Membrane protein, integral; Immunoglobulin superfamily; Membrane protein, GPI anchor Chromosomal Location of Human Ortholog: 19q13.1-q13.2 Cellular Component: basolateral plasma membrane; integral to plasma membrane Molecular Function: identical protein binding; protein homodimerization activity Biological Process: homotypic cell-cell adhesion; negative regulation of apoptosis
Research Articles on CEACAM5	**1.** Results show that scFvs against HER-2/neu and carcinoembryonic antigen (CEA) were isolated.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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