

CD66a (CEACAM1) Recombinant Protein | CD66 recombinant protein

Human CD66a Recombinant (CEACAM1)

CATALOG #	HOST
AAA76096	HEK293 Cells (Host protein expression may be lot-specific and can be subject to change during production, including bulk orders)

PRODUCT SYNONYMS

CD66a (CEACAM1); Human CD66a Recombinant (CEACAM1); Human CD66a Recombinant (CEACAM1) ; cd66a BGP; BGP1; BGPI; CEACAM1 cd66; CD66 recombinant protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells (Host protein expression may be lot-specific and can be subject to change during production, including bulk orders)
Purity/Purification	>95%, as determined by SDS-PAGE and HPLC
Form/Format	Recombinant CD66a is supplied as a 0.2 um filtered PBS solution, pH7.2.
Sequence Length	464
Domain	Ig-like C2
Host Note	Optimized DNA sequence encoding extracellular domain of human CD66a including a C-terminal 6His tag was expressed in HEK293 cells.
Endotoxin	Endotoxin content was assayed using a LAL gel clot method. Endotoxin level was found to be less than 0.1 ng/ug (1EU/ug).
Molecular Weight Note	Recombinant human CD66a is a monomer protein consisting of 405 amino acid residue subunits, due to glycosylation migrates as an approximately 65-85 kDa protein on SDS-PAGE.
Preparation and Storage	Recombinant CD66a, as supplied, can be stored in working aliquots at 2 degree - 8 degree C for one month, or at -20 degree C to -70 degree C for twelve months. Avoid repeated freeze/thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for CD66 recombinant protein	CD66a is a member of the carcinoembryonic antigen (CEA) family, which belongs to the immunoglobulin superfamily. However, CD66a combines structural features of the immunoglobulin superfamily with functional properties of cadherins. The mechanism (s) by which CD66a transmits signals are unclear. However, CD66a is phosphorylated on its cytoplasmic domain, largely on tyrosine with a lower level of phosphoserine, in neutrophils and colon cancer cells. While at least eight isoforms of CD66a derived from differential splicing have been described, only those isoforms with a long cytoplasmic tail can be phosphorylated on tyrosine. In addition, associated protein tyrosine kinase and phosphatase activities may be involved in CD66a signaling.
Product Categories/Family for CD66 recombinant protein	Receptors CD

References	• inhibition of t-cell activation by a ceacam1 (CD66a) peptide .<i>Blood (ASH Annual Meeting Abstracts)</i>, Nov 2008; 112: 4917. • <i>ceacam1 (CD66a) promotes human monocyte survival via a phosphatidylinositol 3-kinase- and akt-dependent pathway</i> .<i>J. Biol. Chem.</i>, Dec 2006; 281: 39179 - 39193. • <i>neisseria gonorrhoeae kills carcinoembryonic antigen-related cellular adhesion molecule 1 (CD66a) -expressing human b cells and inhibits antibody production</i> .<i>Infect. Immun.</i>, Jul 2005; 73: 4171 - 4179. • <i>significance of the adhesion molecule ceacam1 (CD66a) as a prognostic factor for survival in patients with carcinomas of the lung</i> .<i>AACR Meeting Abstracts</i>, Mar 2004; 2004: 1217. • <i>CD66a interactions between human melanoma and nk cells: a novel class i mhc-independent inhibitory mechanism of cytotoxicity</i> .<i>J. Immunol.</i>, Mar 2002; 168: 2803 - 2810.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	68161541
NCBI GeneID	634
NCBI Accession #	NP_001020083.1
NCBI GenBank Nucleotide #	NM_001024912.2
UniProt Accession #	P13688; O60430; Q069I7; Q13854; Q13857; Q13858; Q13859; Q13860; Q15600; Q15601; A6NE38; A8MY49; Q3KRG8
Molecular Weight	57,560 Da
NCBI Official Full Name	carcinoembryonic antigen-related cell adhesion molecule 1 isoform 2
UniProt Protein Name	Carcinoembryonic antigen-related cell adhesion molecule 1
UniProt Gene Name	CEACAM1
UniProt Synonym Gene Names	BGP; BGP1; BGP-1
UniProt Entry Name	CEAM1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.