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## Product Data Sheet

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Product Name: CEACAM1 Human

Cat. No.: GP23110

Batch No.: 1

**Product Data**

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.

Synonyms  
 Carcinoembryonic Antigen Related Cell Adhesion Molecule1;  
 Carcinoembryonic Antigen-Related Cell Adhesion Molecule 1  
 (BiliaryGlycoprotein); CD66a Antigen; BGP1; BGP; Biliary Glycoprotein 1;  
 Antigen CD66;BGP-1; BGPI.

Amino Acid Sequence  
 ADPEFQLTTESMPFNVAEGK EVLLLVHNL P QQLFGYSWYK GERVDGNRQI  
 VGYAIGTQQA TPGPANS GRE TIYPNASLLIQNVTQNDTGF YTLQVIKSDL  
 VNEEATGQFH VYPELPKPSI SSNNSNPVED KDAVAFTCEP  
 ETQDTTYLWWINNQLPVSP RLQLSNGNRT LTLLSVTRND TGPYECEIQN  
 PVSANRSDPV TLNVTYGPDT PTISPSDYYRPGANLSLSC YAASNPPAQY  
 SWLINGTFQQ STQELFIPNI TVNNSGSYTC HANNSVTGCN  
 RTTVKTIIVTELSPPVAKPQ IKASKTTVTG DKDSVNL TCS TNDTGISIRW  
 FFKNQSLPSS ERMKLSQGNT TLSINPVKRE DAGTYWCEVFNPISKNQSDP  
 IMLNVNYNAL PQENGLSPGH HHHHH.

Formulation  
 CEACAM1protein solution (0.25mg/ml) contains Phosphate Buffered  
 Saline (pH 7.4) and 10% glycerol.

**Introduction**

Carcinoembryonic Antigen-Related Cell Adhesion Molecule 1 (CEACAM1) belongs to the carcinoembryonic antigen (CEA) gene family which is a part of the immunoglobulin superfamily. CEACAM1 is a cell adhesion protein which mediates homophilic cell adhesion in a calcium-independent way. CEACAM1 is a surface glycoprotein expressed on various blood cells, epithelial cells, and vascular cells. CEACAM1 functions as coinhibitory receptor in immune response, and plays a role also as an activator during angiogenesis.

**Stability**

**Caution: Product has not been fully validated for medical applications. For research use only.**

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°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.

### Background

CEACAM1 produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 405 amino acids (35-428 a.a.) and having a molecular mass of 44.6kDa (Molecular size on SDS-PAGE will appear at approximately 40-70 kDa). CEACAM1 is expressed with a 6 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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