Recombinant Human CEACAM1 Protein

Catalog No	RP00294	**Category**	
Description	Recombinant Human CEACAM1 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Gln35-Gly428) of human CEACAM1 (Accession #NP_001703.2) fused with a 6×His tag at the C-terminus.		

Sequence Information

Species	Human	**Gene ID**	634
Tags	6×His tag at the C-terminus	**Swiss Prot**	P13688-1
Synonyms	BGP;BGP1;BGPI;CD66a;CEACAM?1		
AA Sequence	QLTTESMPFNVAEGKEVLLLVHNLPQQLFGYSWYKGERVDGNRQIVGYAIGTQQATPGPA NSGRETIYPNASLLIQNVTQNDTGFYTLQVIKSDLVNEEATGQFHVYPELPKPSISSNNS NPVEDKDAVAFTCEPETQDTTYLWWINNQSLPVSPRLQLSNGNRTLTLLSVTRNDTGPYE CEIQNPVSANRSDPVTLNVTYGPDTPTISPSDTYYRPGANLSLSCYAASNPPAQYSWLIN GTFQQSTQELFIPNITVNNSGSYTCHANNSVTGCNRTTVKTIIVTELSPVVAKPQIKASK TTVTGDKDSVNLTCSTNDTGISIRWFFKNQSLPSSERMKLSQGNTTLSINPVKREDAGTY WCEVFNPISKNQSDPIMLNVNYNALPQENGLSPG		

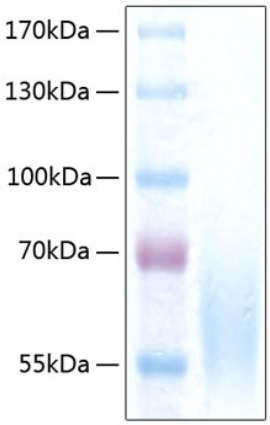
Product information

Source	HEK293 cells
Purity	> 97% by SDS-PAGE.
Endotoxin	Please contact us for more information.
Formulation	Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.
Reconstitution	Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water.
Storage	Store the lyophilized protein at -20°C to -80 °C for long term. After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week. **Avoid repeated freeze/thaw cycles.**

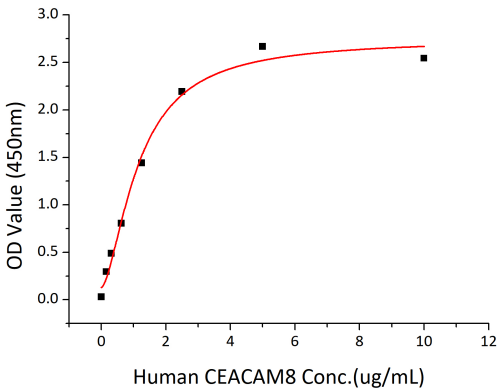
Background

The secreted recombinant human CEACAM1 comprises 405amino acids with a molecular weight of 45 kDa. The apparent molecular mass of recombinant human CEACAM1 is about 65-85 kDa in SDS-PAGE under reducing conditions due to glycosylation.Carcinoembryonic antigen-related cell adhesion molecule 1 (CEACAM1) is also known as Biliary glycoprotein 1 (BGP1), CD66a belonging to the immunoglobulin superfamily or CEA family. CEACAM1 /CD66a contains three Ig-like C2-type (immunoglobulin-like) domains and one Ig-like V-type (immunoglobulin-like) domain. CEACAM1 is a surface glycoprotein expressed on various blood cells, epithelial cells, and vascular cells and was described as an adhesion molecule mediating cell adhesion via both homophilic and heterophilic manners, and was detected on leukocytes, epithelia, and endothelia.The carcinoembryonic-antigen-related cell-adhesion molecule (CEACAM) family of proteins has been implicated in various intercellular-adhesion and intracellular-signalling-mediated effects that govern the growth and differentiation of normal and cancerous cells. Studies have revealed that CEACAM1 performs actions in multiple cellular processes including tissue differentiation, angiogenesis, apoptosis, metastasis, as well as the modulation of innate and adaptive immune responses.

Validated Data



Recombinant Human CEACAM1 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 55-70 kDa.



Immobilized Recombinant Human CEACAM1 at 5 μg/mL (100μL/well) can bind Recombinant Human CEACAM8 with a linear range of 0.5-3 μg/mL.

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