

# Recombinant Human CEACAM1 Protein, His-tagged, Alexa Fluor 647 conjugated

**Cat. No.** CEACAM1-662HAF647    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Alexa Fluor 647 conjugated recombinant human CEACAM1 (Gln35-Gly428) protein was fused to His-tag at C-terminus and expressed in human 293 cells (HEK293).
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>ProteinLength</b>	Gln35-Gly428
<b>Description</b>	Carcinoembryonic antigen-related cell adhesion molecule 1 (CEACAM1) is also known as Biliary glycoprotein 1 (BGP1), CD66a, which belongs 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/CD66a was described as an adhesion molecule mediating cell adhesion via both homophilic and heterophilic manners, and was detected on leukocytes, epithelia, and endothelia. Studies have revealed that CEACAM1/BGP-1 performs actions in multiple cellular processes including tissue differentiation, angiogenesis, apoptosis, metastasis, as well as the modulation of innate and adaptive immune responses.
<b>Form</b>	Lyophilized
<b>Molecular Mass</b>	The protein has a calculated MW of 44.2 kDa. The protein migrates as 57-100 kDa under reducing (R) condition (SDS-PAGE) due to different glycosylation.

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<b>N-terminal Sequence Analysis</b>	Gln 35
<b>Endotoxin</b>	< 1.0 EU/ µg by the LAL method.
<b>Purity</b>	> 92 % as determined by SDS-PAGE
<b>Characteristic</b>	Disulfide-linked homodimer Labeled with Alexa Fluor 647 via amines Excitation = 650 nm Emission = 668 nm
<b>Storage</b>	For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles. This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.
<b>Storage Buffer</b>	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4, 10% trehalose.
<b>Reconstitution</b>	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 µg/µL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.
<b>Conjugation</b>	Alexa Fluor 647

## GENE INFORMATION

**Gene Name** **CEACAM1**

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<b>Official Symbol</b>	<a href="#">CEACAM1</a>
<b>Synonyms</b>	CEACAM1; carcinoembryonic antigen-related cell adhesion molecule 1 (biliary glycoprotein); BGP; carcinoembryonic antigen-related cell adhesion molecule 1; BGP1; CD66a; antigen CD66; CD66a antigen; BGPI
<b>Gene ID</b>	<a href="#">634</a>
<b>mRNA Refseq</b>	<a href="#">NM_001024912</a>
<b>Protein Refseq</b>	<a href="#">NP_001020083</a>
<b>MIM</b>	<a href="#">109770</a>
<b>UniProt ID</b>	<a href="#">P13688</a>

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