

Datasheet for ABIN3137678

**CEACAM1 Protein (AA 35-428) (His tag,AVI tag,Biotin)**[Go to Product page](#)**2** Images

## Overview

Quantity:	200 µg
Target:	CEACAM1
Protein Characteristics:	AA 35-428
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CEACAM1 protein is labelled with His tag,AVI tag,Biotin.

## Product Details

Sequence:	AA 35-428
Specificity:	Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.
Characteristics:	<p><b>High Quality Authentic Human CEACAM1 Protein</b></p> <ul style="list-style-type: none"><li>• The production of this recombinant, biotinylated CEACAM1 protein is carried out using a proprietary expression platform.</li><li>• As expression hosts, the human HEK293 cells have a variety of advantages compared to other cell types.</li><li>• Most importantly, the proteins retain their authentic post-translational processing, which often translates into high bioactivity and stability.</li></ul> <p><b>High Bioactivity &amp; Detection Sensitivity</b></p> <ul style="list-style-type: none"><li>• The bioactivity of biotinylated proteins is determined both by the structure of the protein itself, and by the way how biotinylation is performed.</li><li>• For every single protein, multiple options of tags and biotinylation methods are tested and</li></ul>

## Product Details

the products are evaluated in a variety of binding assays.

- Only those with the best performance are selected for production.

### Low Batch-to-Batch Variation

- Products are routinely tested using rigorous quality control measures to ensure consistent performance.
- Newly produced products are subjected to side-by-side comparison with our internal standard in a variety of assays.
- Only those within an acceptable margin of difference are allowed to be released.

Purity:	>95 % as determined by reduced SDS-PAGE.
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Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.
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## Target Details

Target:	CEACAM1
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Alternative Name:	CEACAM1 ( <a href="#">CEACAM1 Products</a> )
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Background:	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.
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Molecular Weight:	45.9 kDa
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NCBI Accession:	<a href="#">NP_001703</a>
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## Application Details

Comment:	Ready-to-use Avitag™ biotinylated protein:
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The product is exclusively produced using the Avitag™ technology. Briefly, a unique 15 amino acid peptide, the Avi tag, is introduced into the recombinant protein during expression vector construction. The single lysine residue in the Avi tag is enzymatically biotinylated by the E. Coli biotin ligase BirA.

This single-point enzymatic labeling technique brings many advantages for commonly used

Application Details

binding assays. The biotinylation happens on the lysine residue of Avi tag, and therefore does NOT interfere with the target protein's natural binding activities. In addition, when immobilized on an avidin-coated surface, the protein orientation is uniform because the position of the Avi tag in the protein is precisely controlled.

Restrictions: For Research Use only

Handling

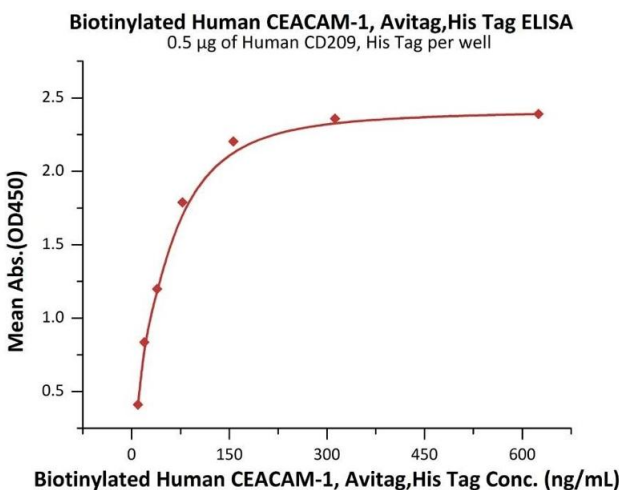
Format: Lyophilized

Buffer: PBS, pH 7.4

Handling Advice: Please avoid repeated freeze-thaw cycles.

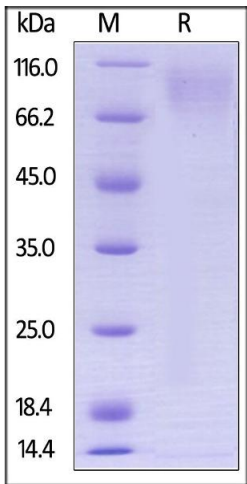
Storage: -20 °C

Images



ELISA

**Image 1.** Immobilized Human CD209, His Tag (ABIN6950997,ABIN6952274) at 5 µg/mL (100 µL/well) can bind Biotinylated Human CEACAM-1, Avitag,His Tag (ABIN3137678,ABIN5674022) with a linear range of 10-78 ng/mL (QC tested).



SDS-PAGE

**Image 2.** Biotinylated Human CEACAM-1, Avitag,His Tag on under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95 % .