

# Biotinylated Recombinant Human ALCAM/CD166 Protein

Catalog No.: RP00621B **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Human	214	Q13740-1

### Tags

C-His&Avi

### Synonyms

CD166; ALCAM; MEMD; CD6L; KG-CAM

## Product Information

Source	Purification
HEK293 cells	≥ 95 % as determined by SDS-PAGE; ≥ 95 % as determined by HPLC.

Calculated MW	Observed MW
58.9 kDa	72-80 kDa

### Endotoxin

< 1 EU/μg of the protein by LAL method.

### Formulation

Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

### Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## Background

Brain metastasis (BM) in non-small-cell lung cancer (NSCLC) has a very poor prognosis. Recent studies have demonstrated the importance of cell adhesion molecules in tumor metastasis. Elevated levels of ALCAM expression promote BM formation in NSCLC through increased tumor cell dissemination and interaction with the brain endothelial cells. Therefore, ALCAM could be targeted to reduce the occurrence of BM.

## Basic Information

### Description

Biotinylated Recombinant Human ALCAM/CD166 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Trp28-Ala526) of Human ALCAM/CD166 (Accession #Q13740-1) fused with a C-His&Avi tag at the C-terminus.

### Bio-Activity

### Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. 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.

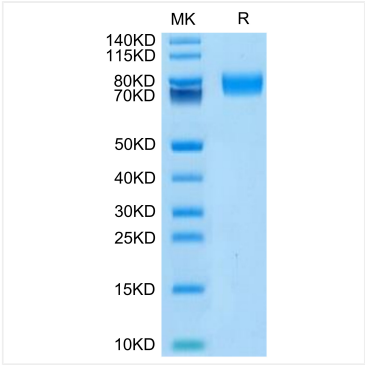
## Contact

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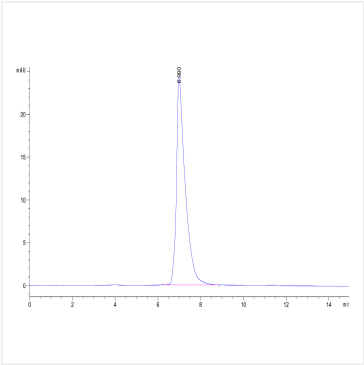
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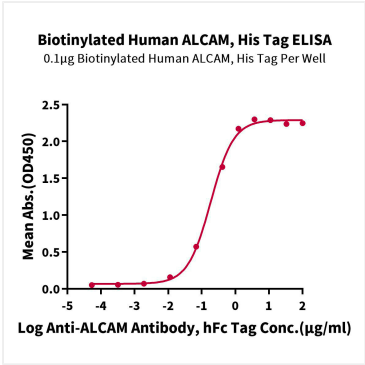
Validation Data



Biotinylated Recombinant Human ALCAM/CD166 Protein was determined by Tris-Bis PAGE under reducing conditions.



The purity of Biotinylated Human ALCAM is greater than 95% as determined by SEC-HPLC.



Immobilized Biotinylated Human ALCAM, His Tag at 1 µg/mL (100 µL/well) on the streptavidin precoated plate (5 µg/mL). Dose response curve for Anti-ALCAM Antibody, hFc Tag with the EC<sub>50</sub> of 0.18 µg/mL determined by ELISA.