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Recombinant Human ALCAM/CD166 Protein

Catalog No.: RP00620 Recombinant

Sequence Information

Species Gene ID Swiss Prot Human 214 013740-1

Tags

C-His

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

57 kDa 60-80 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 stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

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

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 tag at the C-terminus.

Bio-Activity

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage

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

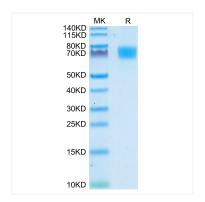
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

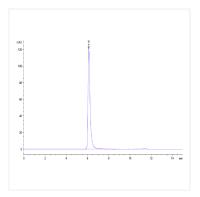
Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

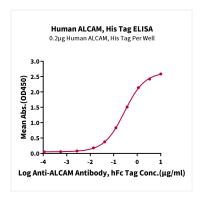
Validation Data



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



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



Immobilized Human ALCAM, His Tag at 2 $\mu g/mL$ (100 $\mu L/Well)$ on the plate. Dose response curve for Anti-ALCAM Antibody, hFc Tag with the EC $_{50}$ of 0.28 $\mu g/mL$ determined by ELISA.