

Recombinant Human ALCAM/CD166 Protein

Catalog No.: RP00119 Recombinant

Sequence Information

Species Gene ID Swiss Prot Human 214 013740

Tags C-hFc&His

Synonyms ALCAM;CD166;MEMD; MEMD

Product Information

Source Purification HEK293 cells ≥ 95 % as

determined by SDS-

PAGE.

Calculated MW Observed MW

85.57 kDa 120 kDa

Endotoxin

< 0.1 EU/ μ g of the protein by LAL method.

Formulation

Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.Contact us for customized product form or formulation.

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

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Background

This protein is activated leukocyte cell adhesion molecule (ALCAM), also known as CD166 (cluster of differentiation 166), which is a member of a subfamily of immunoglobulin receptors with five immunoglobulin-like domains (VVC2C2C2) in the extracellular domain. This protein binds to T-cell differentiation antigene CD6, and is implicated in the processes of cell adhesion and migration. Multiple alternatively spliced transcript variants encoding different isoforms have been found.

Basic Information

Description

Recombinant Human ALCAM/CD166 Protein is produced by HEK293 expression system. The target protein is expressed with sequence (Met1-Ala526) of human ALCAM/CD166 (Accession #NP_001618.2) fused with an Fc, $6 \times$ His tag at the Cterminus.

Bio-Activity

1.Measured by its binding ability in a functional ELISA.Immobilized Human CD6 at 1 μ g/mL (100 μ L/well) can bind Human CD166 with a linear range of 0.05-1.2 ng/mL.|2.Measured by its ability to block adhesion of Jurkat cells to immobilized Recombinant Human CD6 Protein . The ED₅₀ for this effect is 2.7-10.8 μ g/mL.

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 $^{\circ}$ C for 3 months, at 2-8 $^{\circ}$ C for up to 1 week.

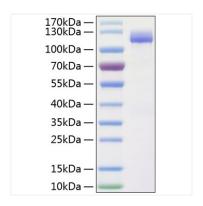
. Avoid repeated freeze/thaw cycles.

Operational Notes

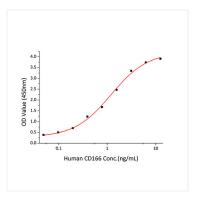
For your safety and health, please wear a lab coat and disposable gloves for handling.

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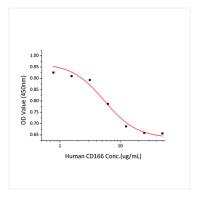
Validation Data



Recombinant Human ALCAM/CD166 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Immobilized recombinant Human CD6 at 1 μ g/mL (100 μ L/well) can bind Human CD166 with a linear range of 0.05-1.2ng/mL.



Recombinant Human CD166 block adhesion of Jurkat cells to immobilized Recombinant Human CD6 Protein . The ED $_{50}$ for this effect is 2.7-10.8 $\mu g/mL$.