

Recombinant Mouse E-Cadherin/CDH1/CD324 Protein

Catalog No.: RP01727

Sequence Information

Species **Gene ID**
Mouse 12550

Swiss Prot **Tags**
P09803 C-6His

Synonyms

Um; UVO; Ecad; ARC-1; E-cad; L-CAM; CDH1

Product Information

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

Calculated MW **Observed MW**
61.70 kDa 75 kDa

Endotoxin

< 0.1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

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

This protein is a member of the neurotrophic tyrosine kinase receptor (NTRK) family. This kinase is a membrane-bound receptor that, upon neurotrophin binding, phosphorylates itself and members of the MAPK pathway. The presence of this kinase leads to cell differentiation and may play a role in specifying sensory neuron subtypes. Mutations in this gene have been associated with congenital insensitivity to pain, anhidrosis, self-mutilating behavior, mental retardation and cancer. Alternate transcriptional splice variants of this gene have been found, but only three have been characterized to date.

Basic Information

Description

Recombinant Mouse E-Cadherin/CDH1/CD324 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Asp157-Val709) of mouse E-Cadherin/Cadherin-1/CDH1 (Accession #NP_033994.1) fused with and a 6×His tag at the C-terminus.

Activity

Measured by the ability of the immobilized protein to support the adhesion of the MCF-7 human breast cancer cells. The ED₅₀ for this effect is 0.82–3.29 μg/mL.

Shipping

Lyophilized proteins are shipped at ambient temperature.

Liquid proteins are shipped at frozen temperature with dry ice.

Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C

Operational Notes

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

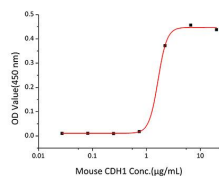
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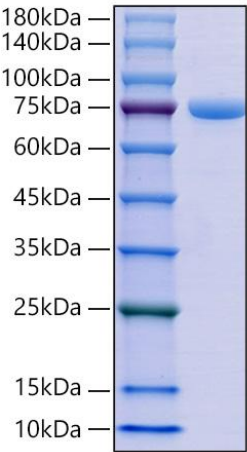
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Validation Data



Recombinant Mouse CDH1 measured by the ability of the immobilized protein to support the adhesion of the MCF-7 human breast cancer cells. The ED_{50} for this effect is 0.82-3.29 $\mu\text{g/mL}$.



Recombinant Mouse E-Cadherin/CDH1/CD324 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.