



Synonym

Cadherin-1,CDH1,CD324,E-cadherin,Arc-1,ECAD,LCAM,UV0

Source

Human E-Cadherin (155-709) Protein, Fc Tag(ECD-H5256) is expressed from human 293 cells (HEK293). It contains AA Asp 155 - Ala 709 (Accession # [P12830-1](#)).

Predicted N-terminus: Asp 155

Molecular Characterization

E-Cadherin(Asp 155 - Ala 709)	Fc(Pro 100 - Lys 330)
P12830-1	P01857

This protein carries a human IgG1 Fc tag at the C-terminus.

The protein has a calculated MW of 87.0 kDa . The protein migrates as 50 kDa and 95-110 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per μ g by the LAL method / rFC method.

Purity

>90% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

Formulation

Lyophilized from 0.22 μ m filtered solution in 20 mM Tris, 150 mM NaCl, pH8.0 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

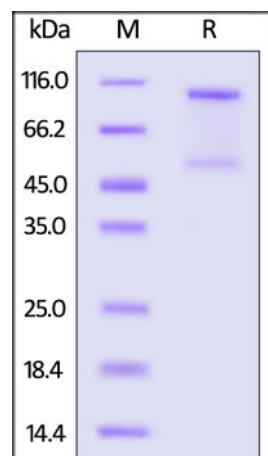
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

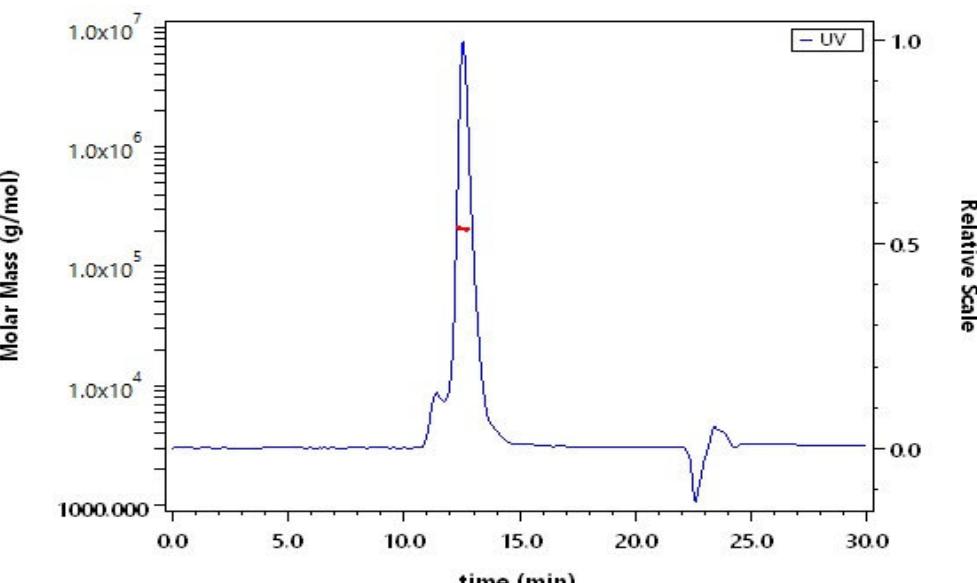
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Human E-Cadherin (155-709) Protein, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%.

SEC-MALS



The purity of Human E-Cadherin (155-709) Protein, Fc Tag (Cat. No. ECD-H5256) is more than 90% and the molecular weight of this protein is around 200-230 kDa verified by SEC-MALS.

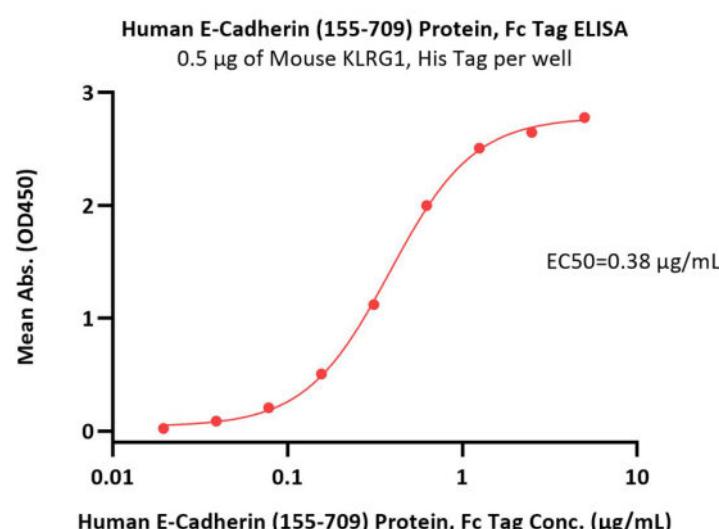
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Immobilized Mouse KLRG1, His Tag (Cat. No. KL1-M5249) at 5 µg/mL (100 µL/well) can bind Human E-Cadherin (155-709) Protein, Fc Tag (Cat. No. ECD-H5256) with a linear range of 0.02-1.25 µg/mL (QC tested).

Background

Cadherins are calcium-dependent cell adhesion proteins. They preferentially interact with themselves in a homophilic manner in connecting cells; cadherins may thus contribute to the sorting of heterogeneous cell types. Cadherin-1 (CDH1) is also known as epithelial cadherin (E-cadherin), CD_antigen (CD324), Uvomorulin (UVO) ECAD and CDHE, CDH1 / CD324 contains 5 cadherin domains. CDH1 / CD324 / ECAD is expressed in non-neuronal epithelial tissues. CDH1 / E-CAD is involved in mechanisms regulating cell-cell adhesions, mobility and proliferation of epithelial cells and has a potent invasive suppressor role. It is a ligand for integrin alpha-E/beta-7. E-Cad promotes non-amyloidogenic degradation of Abeta precursors and has a strong inhibitory effect on APP C99 and C83 production. Defects in CDH1 / CD324 / ECAD are the cause of hereditary diffuse gastric cancer (HDGC).

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