

Human E-Cadherin / Cadherin-1 Protein, Fc Tag

Catalog # AMS.ECD-H5250-100ug

For Research Use Only

Description

Source Human E-Cadherin, Fc Tag (ECD-H5250) is expressed from human 293 cells (HEK293). It contains AA Gln 23 - Pro 621 (Accession # AAI41839). Predicted N-terminus: Gln 23

Predicted N-terminus Gln 23

Protein Structure

E-Cadherin(Gln 23 - Pro 621) AAI41839	Fc(Pro 100 - Lys 330) P01857
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Molecular Characterization

This protein carries a human IgG1 Fc tag at the C-terminus. The protein has a calculated MW of 92.4 kDa. The protein migrates as 100 kDa and 120 kDa Cadherin, a 48 kDa Propeptide under reducing (R) condition (SDS-PAGE) due to different glycosylation.

Endotoxin Less than 1.0 EU per µg by the LAL method.

Purity >95% as determined by SDS-PAGE.

Formulation and Storage

Formulation Lyophilized from 0.22 µm filtered solution in 50 mM Tris, 100 mM Glycine, pH7.5. Normally trehalose is added as protectant before lyophilization.

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.

No activity loss was observed after storage at:

- 4-8°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

Background

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-neural 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).

References

- (1) Agiostratidou G., et al., 2006, J. Neurochem. 96:1182-1188.
- (2) Meng Y.G., et al., 2007, Cell Res. 17:869-880.
- (3) Yoon K.-A., et al., 1999, J. Hum. Genet. 44:177-180.

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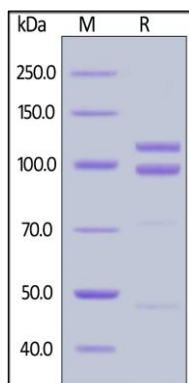
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Assay Data

SDS-PAGE Data



Human E-Cadherin, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

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