

Recombinant Human CDH1 Protein, Fc-tagged

Cat. No. CDH1-11078H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human E-Cadherin, Fc Tag, premium grade is expressed from human 293 cells (HEK293). It contains AA Gln 23 - Pro 621 (Accession # AAI41839). This protein carries a human IgG1 Fc tag at the C-terminus. Predicted N-terminus: Gln 23
Species	Human
Source	HEK293
ProteinLength	23-621 aa
Description	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).
Form	Lyophilized from 0.22 µm filtered solution in 50 mM Tris, 100 mM Glycine, 25 mM Arginine, 150 mM NaCl, pH7.5 with trehalose as protectant.

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Specificity	Sterility: Negative Mycoplasma: Negative
Molecular Mass	The protein has a calculated MW of 92.3 kDa. The protein migrates as 100 kDa and 120 kDa (Cadherin), and 48 kDa (Propeptide) under reducing (R) condition (SDS-PAGE) due to different glycosylation.
Endotoxin	Less than 0.1 EU/μg by the LAL method/rFC method.
Purity	>95% as determined by SDS-PAGE.
Storage	This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution. For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 μg/μL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.

GENE INFORMATION

Gene Name	CDH1 cadherin 1, type 1, E-cadherin (epithelial) [Homo sapiens]
Official Symbol	CDH1
Synonyms	CDH1; cadherin 1, type 1, E-cadherin (epithelial); UVO; cadherin-1; CD324; E Cadherin; uvomorulin; CAM 120/80; E-Cadherin; cell-CAM 120/80; epithelial cadherin; cadherin 1, E-cadherin (epithelial); calcium-dependent adhesion protein, epithelial; CDHE; ECAD; LCAM; Arc-1;
Gene ID	999

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mRNA Refseq	NM_004360
Protein Refseq	NP_004351
MIM	192090
UniProt ID	P12830

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