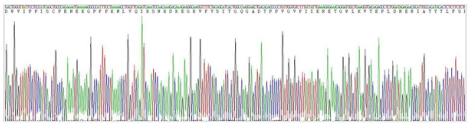
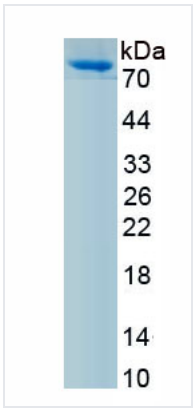
E-cadherin Eukaryotic Protein

PRODUCT OVERVIEW

Product Name	E-cadherin, Protein
Full Product Name	Eukaryotic E-cadherin
Product Gene Name	E-cadherin protein
Product Synonym Names	E-cadherin; E-cadherin recombinant protein (eukaryotic,293F cell), Human; CDHE; CD324; CDH1; Arc1; ECAD; CDH-E; E-CAD; LCAM; UVO; Cadherin 1 Type 1; Uvomorulin; E-Cadherin; Calcium-Dependent Adhesion Protein, Epithelial; Liver Cell Adhesion Molecule4
Sequence	Asp155~Ile 707
Host	293F cell
Form/Format	Freeze-dried powder; PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Purity/Purification	Greater than 90% by SDS-PAGE
Preparation and Storage	Store at 2-8 degree C for one month, -80 degree C for 12 months
Molecular Weight	97,456 Da
Chromosome Location	Chromosome: 16; NC_000016.9 (68771195..68869444). Location: 16q22.1
OMIM	137215
3D Structure	ModBase 3D Structure for P12830
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Species	Human
Expression System	Eukaryotic expression
Tag	N-terminal His Tag
Endotoxin Level	<1.0EU per 1ug (determined by the LAL method)
Isoelectric Point	4
Subcellular Location	Membrane, Plasma, Golgi apparatus, Endoplasmic reticulum lumen
Research Area	CD & Adhesion molecule, Tumor immunity
Product Categories/Family for E-cadherin protein	Eukaryotic proteins
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for E-cadherin protein	Positive Control, Immunogen, SDS-PAGE, Western Blot (WB)
Related Product Information for E-cadherin protein	MBS2162471 is a protein targeting E-cadherin. Also known as Eukaryotic E-cadherin. Host: 293F cell.
Other Notes	Small volumes of E-cadherin protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Gene Sequencing of E-cadherin protein
Figure. Gene Sequencing (extract)



SDS-PAGE of E-cadherin protein
Figure. SDS-PAGE

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for E-cadherin. It may not necessarily be applicable to this product.

NCBI GI #	4757960
NCBI GeneID	999
NCBI Accession #	NP_004351.1
UniProt Primary Accession #	P12830
UniProt Secondary Accession #	Q13799; Q14216; Q15855; Q16194; Q4PJ14; A8K1U7
UniProt Related Accession #	P12830
GenBank Nucleotide #	NM_004360.3
NCBI Official Full Name	cadherin-1 preproprotein
NCBI Official Synonym Full Names	cadherin 1, type 1, E-cadherin (epithelial)
NCBI Official Symbol	CDH1
NCBI Official Synonym Symbols	UVO; CDHE; ECAD; LCAM; Arc-1; CD324
UniProt Protein Name	Cadherin-1
UniProt Synonym Protein Names	CAM 120/80; Epithelial cadherin; E-cadherin; Uvomorulin
Protein Family	EP-cadherin
UniProt Gene Name	CDH1
UniProt Synonym Gene Names	CDHE; UVO; E-cadherin
UniProt Entry Name	CADH1_HUMAN
NCBI Protein Information	cadherin-1; CAM 120/80; E-Cadherin; uvomorulin; cell-CAM 120/80; epithelial cadherin; cadherin 1, E-cadherin (epithelial); calcium-dependent adhesion protein, epithelial
NCBI Summary for E-cadherin	This gene is a classical cadherin from the cadherin superfamily. The encoded protein is a calcium dependent cell-cell adhesion glycoprotein comprised of five extracellular cadherin repeats, a transmembrane region and a highly conserved cytoplasmic tail. Mutations in this gene are correlated with gastric, breast, colorectal, thyroid and ovarian cancer. Loss of function is thought to contribute to progression in cancer by increasing proliferation, invasion, and/or metastasis. The ectodomain of this protein mediates bacterial adhesion to mammalian cells and the cytoplasmic domain is required for internalization. Identified transcript variants arise from mutation at consensus splice sites. [provided by RefSeq, Jul 2008]

UniProt Comments for E-cadherin	CDH1: a single-pass type I membrane protein, and calcium dependent cell adhesion proteins. It is a ligand for integrin alpha-E/beta-7, and it colocalizes with DLG7 at sites of cell-cell contact in intestinal epithelial cells. Anchored to actin microfilaments through association with alpha-, beta- and gamma-catenin. Sequential proteolysis induced by apoptosis or calcium influx, results in translocation from sites of cell-cell contact to the cytoplasm. Involved in mechanisms regulating cell-cell adhesions, mobility and proliferation of epithelial cells. Defects in CDH1 are involved in dysfunction of the cell-cell adhesion system, triggering cancer invasion (gastric, breast, ovary, endometrium and thyroid) and metastasis. Has a potent invasive suppressor role. Protein type: Cell adhesion; Motility/polarity/chemotaxis; Membrane protein, integral; Ubiquitin ligase Chromosomal Location of Human Ortholog: 16q22.1 Cellular Component: apical junction complex; internal side of plasma membrane; focal adhesion; cell surface; lateral loop; basolateral plasma membrane; extracellular region; integral to membrane; trans-Golgi network; catenin complex; actin cytoskeleton; cell-cell adherens junction; apical part of cell; perinuclear region of cytoplasm; cytoplasm; plasma membrane; nerve terminal; cell junction; endosome; lateral plasma membrane Molecular Function: protein domain specific binding; protein binding; gamma-catenin binding; beta-catenin binding; GTPase activating protein binding; calcium ion binding; cell adhesion molecule binding; ankyrin binding; glycoprotein binding; protein phosphatase binding Biological Process: response to drug; intercellular junction assembly and maintenance; extracellular matrix organization and biogenesis; regulation of immune response; apoptosis; response to toxin; positive regulation of transcription, DNA-dependent; regulation of caspase activity; trophectodermal cell differentiation; regulation of water loss via skin; extracellular matrix disassembly; cell-cell adhesion; synaptogenesis; sensory perception of sound; pituitary gland development; calcium-dependent cell-cell adhesion; protein metabolic process; positive regulation of transcription factor import into nucleus; negative regulation of cell-cell adhesion; homophilic cell adhesion; protein homooligomerization; neurite development; negative regulation of epithelial cell proliferation; cell structure disassembly during apoptosis Disease: Gastric Cancer, Hereditary Diffuse; Prostate Cancer; Breast Cancer; Ovarian Cancer; Endometrial Cancer
Research Articles on E-cadherin	**1.** E-cadherin expression in adenocarcinoma cells is regulated by slug.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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