

Recombinant Human Cadherin 1, Type 1, E-Cadherin (Epithelial)

Cat. No. CDH1-1605H Lot. No. (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	Mammalian Cells
Description	Cadherin 1, type 1, E-cadherin (epithelial), also known as CDH1 and CD32, is a tumor suppressor gene. 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. E-cadherin-mediated cell-cell adhesion pathway may represent a novel chemotherapeutic target for bladder cancer, prostate cancer, and renal-cell carcinoma.
Molecular Weight	The predicted molecular weight of Recombinant Human E-Cadherin is 87.7 kDa. However, the actual molecular weight as observed by migration on SDS Page is 120 kDa.
State Of Matter	Lyophilized.
Purity	>90% by SDS Page and analyzed by silver stain.
Endotoxin	<1.0 EU/g as determined by the LAL method.
Storage	This lyophilized protein is stable for six to twelve months when stored desiccated at -

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20°C to -70°C. After aseptic reconstitution, this protein may be stored at 2°C to 8°C for one month or at -20°C to -70°C in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles. See Product Insert for exact lot specific storage instructions.

GENE INFORMATION

Gene Name	CDH1 cadherin 1, type 1, E-cadherin (epithelial) [Homo sapiens]
Synonyms	CDH1; cadherin 1, type 1, E-cadherin (epithelial); UVO; CDHE; ECAD; LCAM; Arc-1; CD324; cadherin 1, type 1; uvomorulin; cell-CAM 120/80; cadherin 1, E-cadherin (epithelial); calcium-dependent adhesion protein, epithelial; uvomorulin; Cadherin-1; E-cadherin; CAM 120/80; E-Cad/CTF1; E-Cad/CTF2; E-Cad/CTF3; Uvomorulin; CD324 antigen; Epithelial cadherin
Gene ID	999
mRNA Refseq	NM_004360
Protein Refseq	NP_004351
MIM	192090
UniProt ID	P12830
Chromosome Location	16q22.1
Pathway	Adherens junction; Bladder cancer; Cell adhesion molecules (CAMs); Endometrial cancer; Melanoma; Pathogenic Escherichia coli infection - EHEC; Pathways in cancer; Thyroid cancer; Apoptosis; Cell-cell adhesion systems; Integrin cell surface

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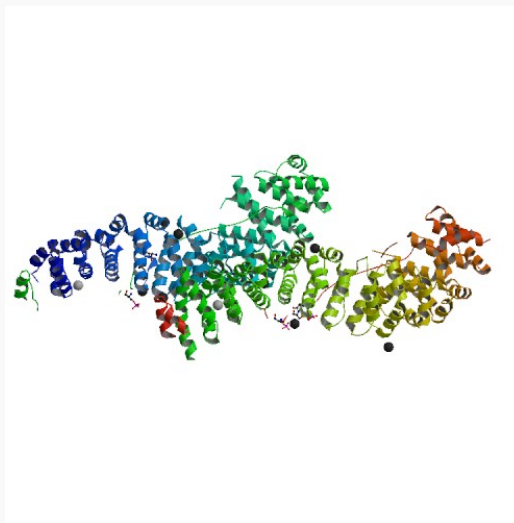
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interactions; Signaling in Immune system

Function

RPTP-like protein binding; beta-catenin binding; calcium ion binding; cell adhesion molecule binding; protein phosphatase binding; transcription activator activity

PDB rendering based on 1i7w.



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