

Recombinant Human CDH1 Protein, His-tagged

Cat. No. CDH1-43H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human CDH1, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Species	Human
Source	Insect Cells
Description	CDH1, also known as cadherin-1, is a member of cell surface glycoproteins that mediate cell adhesion. Human CDH1 shares amino acid sequence identity with the rat and mouse proteins. It is a single-pass transmembrane protein that mediates calcium-dependent epithelial cell adhesion. This protein preferentially interacts with themselves in a homophilic manner in connecting cells. It may thus contribute to the sorting of heterogeneous cell types. It is involved in mechanisms regulating cell-cell adhesions, mobility and proliferation of epithelial cells. It is a ligand for integrin α -E/ β -7.
Form	Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.
Molecular Mass	76.6kDa (694aa)70KDa (SDS-PAGE under reducing conditions)
AA Sequence	EPEPCHPGFD AESYTFTVPR RHLERGRVLG RVNFEDCTGR QRTAYFSLDT RFKVGTDGVI TVKRPLRFHN PQIHFLVYAW DSTYRKFKSTK VTLNTVGH ^{HH} RPPPHQASVS GIQAELLTFP NSSPGLRRQK RDWVIPPISC PENEKGPF ^{PK} NLVQIKSNKD KEGKVFYSIT GQGADTPPVG VFIERETGW LKVTEPLDRE RIATYTLFSH AVSSNGNAVE DPMEILITVT DQNDNKPEFT QEVFKGSVME

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GALPGTSVME VTATDADDDV NTYNAAIAYT ILSQDPELPD KNMFTINRNT
 GVISVVTGL DRESFPTYTL VVQAADLQGE GLSTTATAVI TVTDTNDNPP
 IFNPTTYKGQ VPENEANVVI TTLKVTDADA PNTPAWEAVY TILNDDGGQF
 VVTNPNVNND GILKTAKGLD FEAQQYILH VAVTNVVPFE VSLTTSTATV
 TVDVLDVNEA PIFVPPEKRV EVSEDFGVGQ EITSYTAQEP DTFMEQKITY
 RIWRDTANWL EINPDTGAIS TRAEKDREDF EHVKNSTYTA LIATDNGSP
 VATGTGTLLE ILSDVNDNAP IPEPRTIFFC ERNPKPQVIN IIDADLPPNT
 SPFTAELTHG ASANWTIQYN DPTQESIILK PKMALEVGDY KINLKLMDNQ
 NKDQVTTLEV SVCDCEGAAG VCRKAQPVEA GLQIPALEHH HHHH

Endotoxin < 1.0 EU per 1 microgram of protein (determined by LAL method)

Purity >90% by SDS – PAGE

Storage Can be stored at +4 centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20 centigrade or -70 centigrade. Avoid repeated freezing and thawing cycles.

Concentration 0.5mg/ml (determined by Absorbance at 280nm)

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;

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Gene ID	999
mRNA Refseq	NM_004360
Protein Refseq	NP_004351
MIM	192090
UniProt ID	P12830
Chromosome Location	16q22.1
Pathway	Adaptive Immune System, organism-specific biosystem; Adherens junction, organism-specific biosystem; Adherens junction, conserved biosystem; Adherens junctions interactions, organism-specific biosystem; Apoptosis, organism-specific biosystem; Apoptotic cleavage of cell adhesionproteins, organism-specific biosystem; Apoptotic cleavage of cellular proteins, organism-specific biosystem;
Function	GTPase activating protein binding; calcium ion binding; cell adhesion molecule binding; gamma-catenin binding; protein binding;