

Recombinant Human CDH1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. CDH1-6277H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	CDH1 MS Standard C13 and N15-labeled recombinant protein (NP_004351) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes a classical cadherin of the cadherin superfamily. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed to generate the mature glycoprotein. This calcium-dependent cell-cell adhesion protein is 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 of this gene is thought to contribute to cancer progression 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. This gene is present in a gene cluster with other members of the cadherin family on chromosome 16.
Molecular Mass	97.46 kDa
AA Sequence	MGPWSRSLSALLLLLQVSSWLCQEPEPCHPGFDAESYTFVPRRHLEGRVLRV NFEDCTGRQRTAYFSLDTRFKVGTGDIVTKRPLRFHNPQIHFLVYAWDSTYRKFS

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KVTLNTVGHHRPPPHQASVSGIQAELLTFPNSSPGLRRQKRDWVIPPISCPENEKG
 PFPKNLVQIKSNKDKEGKVIFYISITGQGADTPPVGVFIERETGWLKVTEPLDRERIAT
 YTLFSHAVSSNGNAVEDPMEILITVTDQNDNKPEFTQEVFKGSVMEGALPGTSVME
 VTATDADDDVNTYNAAIAYTILSQDPELPDKNMFTINRNTGVISVTTGLDRESFPTY
 TLVVQAADLQGEGLSTTATAVITVTDNDNPPIFNPTTYKGQVPENEANVVITTLKVT
 DADAPNTPAWEAVYTILNDDGGQFVVTNPNVNDGILKTAKGLDFEAKQQYILHVAV
 TNVVPFEVSLTTSTATVTVDVLDVNEAPIFVPPEKRVEVSEDFGVGQEITSYTAQEPD
 TFMEQKITYRIWRDTANWLEINPDTGAISTRAELDREDFEHVKNSTYALIIATDNGSP
 VATGTGTLILLSDVNDNAPIPEPRTIFFCERNPKPQVINIIDADLPPNTSPFTAELTHG
 ASANWTIQYNDPTQESIILKPKMALEVGDYKINLKLMDNQNKDQVTTLEVSVCDCEG
 AAGVCRKAQPVEAGLQIPAILGILGGILALLILLLLLLFLRRRAVVKEPLLPPEDDTRDN
 VYYYDEEGGGGEDQDFDLSQLHRGLDARPEVTRNDVAPTLMSVPRYLPRPANPDEI
 GNFIDENLKAADTDPTAPPYDSLIVFDYEGSGSEAASLSSLNSESDDKDQDYDYLNE
 WGNRFKKLADMYGGGEDDTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity

> 80% as determined by SDS-PAGE and Coomassie blue staining

Stability

Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage

Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration

50 µg/mL as determined by BCA

Storage Buffer

100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name

CDH1 cadherin 1 [Homo sapiens (human)]

Official Symbol

CDH1

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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

mRNA Refseq NM_004360

Protein Refseq NP_004351

MIM 192090

UniProt ID P12830

SDS-PAGE



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