

Recombinant Human CDH3, T7/His-tagged

Cat. No. CDH3-281H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The full-length extracellular domain of human CDH3 gene (108 - 645 aa) with 29 N-terminal T7/HIS-tag was expressed in E. coli.
Species	Human
Source	E.coli
Description	Cadherin-3, also known as P-Cadherin, is a protein that in humans is encoded by the CDH3 gene. This gene is a classical cadherin from the cadherin superfamily. The encoded protein is a calcium-dependent cell-cell adhesion glycoprotein composed of five extracellular cadherin repeats, a transmembrane region and a highly conserved cytoplasmic tail. This gene is located in a six-cadherin cluster in a region on the long arm of chromosome 16 that is involved in loss of heterozygosity events in breast and prostate cancer. In addition, aberrant expression of this protein is observed in cervical adenocarcinomas. Mutations in this gene have been associated with congenital hypotrichosis with juvenile macular dystrophy.
Form	20 mM Tris-HCl buffer, containing NaCl, KCl, EDTA, L-arginine, DTT and glycerol.
AA Sequence	MASMTGGGQMGRGHHHHHHGNLYFQGGEFDWVAPISVPENGKGPFPQRLNQL KSNKDRDTKIFYISITGPGADSP PEGVFAVEKETGWLLL NKPLDREEIAKYELFGHAV SENGASVEDPMNISIIVTDQNDHKPKFTQDTRGSVLEGV LPGTSVMQVTATDEDD AIYTYNGVVAYSISHSQEPKDPHDLMTIHRSTGTISVISSGLDREKVPEYTLTIQATDM DGDGSTTTAVAVVEILDANDNAPMFDPQKYEAHVPENAVGHEVQRLTVTDLDAPNS

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PAWRATYLMGGDDGDHFT ITTHPESNQGILTTRKGLDFEAKNQHTLYVEVTNEAPF
 VLKLPTSTATIVVHVEDVNEAPVFPVPPSKVVEVQEGI PTGEPVCVYTAEDPDKENQK
 ISYRILRDPAGWLAMPDPSGQVTAVGTLDTREDEQFVRNNIYEVMLAMDNGSPPT T
 GTGTLLLTLDVNDHGPVPEPRQITICNQSPVRQVLNITDKDLSPHTSPFQAQLTDDS
 DIYWTAEVNEEGDTVV LSLKKFLKQDTYDVHLSLSDHGNKEQLTVIRATVCDCHGH
 VETCPGPWKGG

Purity ≥90% (SDS-PAGE)

Storage Store at -20 centigrade

Concentration 0.5 mg protein/mL

GENE INFORMATION

Gene Name [CDH3 cadherin 3, type 1, P-cadherin \(placental\) \[Homo sapiens \]](#)

Official Symbol CDH3

Synonyms CDHP; HJMD; PCAD; cadherin-3; calcium-dependent adhesion protein, placental

Gene ID [1001](#)

mRNA Refseq [NM_001793](#)

Protein Refseq [NP_001784](#)

MIM [114021](#)

UniProt ID P22223

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Chromosome Location	16q22.1
Pathway	Adherens junctions interactions, organism-specific biosystem; Cell adhesion molecules (CAMs), organism-specific biosystem; Cell adhesion molecules (CAMs), conserved biosystem
Function	calcium ion binding; molecular_function

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