

## Cadherin-1/CD324 Protein, Human (HEK293, Fc)

Cat. No.:	HY-P74370
Synonyms:	Cadherin-1; CDH1; CAM 120/80; E-cadherin; CD324
Species:	Human
Source:	HEK293
Accession:	P12830-1 (Q23-I707)
Gene ID:	999
Molecular Weight:	105-126 kDa

### PROPERTIES

#### AA Sequence

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Q E P E P C H P G F   D A E S Y T F T V P   R R H L E R G R V L   G R V N F E D C T G
R Q R T A Y F S L D   T R F K V G T D G V   I T V K R P L R F H   N P Q I H F L V Y A
W D S T Y R K F S T   K V T L N T V G H H   H R P P P H Q A S V   S G I Q A E L L T F
P N S S P G L R R Q   K R D W V I P P I S   C P E N E K G P F P   K N L V Q I K S N K
D K E G K V F Y S I   T G Q G A D T P P V   G V F I I E R E T G   W L K V T E P L D R
E R I A T Y T L F S   H A V S S N G N A V   E D P M E I L I T V   T D Q N D N K P E F
T Q E V F K G S V M   E G A L P G T S V M   E V T A T D A D D D   V N T Y N A A I A Y
T I L S Q D P E L P   D K N M F T I N R N   T G V I S V V T T G   L D R E S F P T Y T
L V V Q A A D L Q G   E G L S T T A T A V   I T V T D T N D N P   P I F N P T T Y K G
Q V P E N E A N V V   I T T L K V T D A D   A P N T P A W E A V   Y T I L N D D G G Q
F V V T T N P V N N   D G I L K T A K G L   D F E A K Q Q Y I L   H V A V T N V V P F
E V S L T T S T A T   V T V D V L D V N E   A P I F V P P E K R   V E V S E D F G V G
Q E I T S Y T A Q E   P D T F M E Q K I T   Y R I W R D T A N W   L E I N P D T G A I
S T R A E L D R E D   F E H V K N S T Y T   A L I I A T D N G S   P V A T G T G T L L
L I L S D V N D N A   P I P E P R T I F F   C E R N P K P Q V I   N I I D A D L P P N
T S P F T A E L T H   G A S A N W T I Q Y   N D P T Q E S I I L   K P K M A L E V G D
Y K I N L K L M D N   Q N K D Q V T T L E   V S V C D C E G A A   G V C R K A Q P V E
A G L Q I

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<b>Biological Activity</b>	Measured by the ability of the immobilized protein to support the adhesion of MCF-7 cells. The ED <sub>50</sub> for this effect is 0.6742 μg/mL, corresponding to a specific activity is 1.483×10 <sup>3</sup> U/mg.
<b>Appearance</b>	Lyophilized powder
<b>Formulation</b>	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4 or PBS, pH 7.4, 8% trehalose.
<b>Endotoxin Level</b>	<1 EU/μg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH <sub>2</sub> O.
<b>Storage &amp; Stability</b>	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is

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recommended to freeze aliquots at -20°C or -80°C for extended storage.

**Shipping**

Room temperature in continental US; may vary elsewhere.

**DESCRIPTION**

**Background**

Cadherin-1 (CD324) is a calcium-dependent cell adhesion protein known for its preference to interact homophilically with itself in adjacent cells, thereby contributing to the sorting of heterogeneous cell types. CDH1, a member of the cadherin family, plays a crucial role in regulating cell-cell adhesions, influencing the mobility and proliferation of epithelial cells. Notably, CDH1 exhibits a potent role as an invasive suppressor and serves as a ligand for integrin alpha-E/beta-7E, impacting non-amyloidogenic degradation of Abeta precursors. Moreover, CDH1 demonstrates a robust inhibitory effect on the production of APP C99 and C83, further emphasizing its multifaceted involvement in cellular processes and its potential implications in pathological contexts.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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