

Datasheet for ABIN7505773

**E-cadherin Protein (AA 1-713) (His tag)**[Go to Product page](#)

## Overview

Quantity:	100 µg
Target:	E-cadherin (CDH1)
Protein Characteristics:	AA 1-713
Origin:	Rat
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This E-cadherin protein is labelled with His tag.

## Product Details

Sequence:	Met1-Ala713
Characteristics:	A DNA sequence encoding the Rat VE-Cadherin protein (Q9R0T4) (1-713) was expressed with a C-His.
Purity:	> 95 % as determined by reducing SDS-PAGE.

## Target Details

Target:	E-cadherin (CDH1)
Alternative Name:	E-Cadherin ( <a href="#">CDH1 Products</a> )
Background:	Abbreviation: E-Cadherin,CDH1 Target Synonym: CDH1,E-cad,CD324 Background: Cadherins are calcium-dependent cell adhesion proteins which preferentially interact with themselves in a homophilic manner in connecting cells, and thus may contribute

## Target Details

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to the sorting of heterogeneous cell type. E-cadherin (E-Cad), also known as CDH1 and CD324, is a calcium-dependent cell adhesion molecule the intact function of which is crucial for the establishment and maintenance of epithelial tissue polarity and structural integrity. Mutations in CDH1 occur in diffuse type gastric cancer, lobular breast cancer, and endometrial cancer. In human cancers, partial or complete loss of E-cadherin expression correlates with malignancy. During apoptosis or with calcium influx, E-Cad is cleaved by the metalloproteinase to produce fragments of about 38 kDa (E-CAD/CTF1), 33 kDa (E-CAD/CTF2) and 29 kDa (E-CAD/CTF3), respectively. E-Cad has been identified as a potent invasive suppressor, as downregulation of E-cadherin expression is involved in dysfunction of the cell-cell adhesion system, and often correlates with strong invasive potential and poor prognosis of human carcinomas.

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Molecular Weight:            Calculated MW: 78.32 kDa  
   Observed MW: 80 kDa

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UniProt:                        [Q9R0T4](#)

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Pathways:                      [WNT Signaling](#), [Sensory Perception of Sound](#), [Cell-Cell Junction Organization](#), [Tube Formation](#)

## Application Details

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Restrictions:                   For Research Use only

## Handling

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Format:                        Lyophilized

Buffer:                        Lyophilized from sterile PBS, pH 7.4.  
   Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization.

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Storage:                        4 °C, -20 °C, -80 °C

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Storage Comment:            Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.  
   Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

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Expiry Date:                   12 months