



# Recombinant Human Cadherin-1 (CDH1), partial

<b>Product Code</b>	CSB-EP005034HU
<b>Relevance</b>	Cadherins are calcium-dependent cell adhesion proteins. They preferentially interact with themselves in a homophilic manner in connecting cells; cadherins may thus contribute to the sorting of heterogeneous cell types. CDH1 is involved in mechanisms regulating cell-cell adhesions, mobility and proliferation of epithelial cells. Has a potent invasive suppressor role. It is a ligand for integrin alpha-E/beta-7.
<b>Abbreviation</b>	Recombinant Human CDH1 protein, partial
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	P12830
<b>Alias</b>	CAM 120/80Epithelial cadherin ;E-cadherinUvomorulin; CD324
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	Greater than 90% as determined by SDS-PAGE.
<b>Sequence</b>	DWVIPPISCPENEKGPFKPNLVQIKSNKDKEGKVFYSITGQGADTPPVGVFIER ETGWLKVTEPLDRERIATYTLFSHAVSSNGNAVEDPMEILITVTDQNDNKPEFT QEVFKGSMEGALPGTSVMEVTATDADDDVNTYNAAIAYTILSQDPELPDKNM FTINRNTGVISVTTGLDRESFPTYTLVVQAADLQGEGLSTTATAVITVTDNDN PPIFNPTTYKGQVPENEANVVITTLKVTDADAPNTPAWEAVYTILNDDGGQFVV TTNPVNNDGILKTAKGLDFEAKQQYILHVAVTNNVVPFEVSLTTSTATVTVDVLD VNEAPIFVPPEKRVEVSEDFGVGQEITSYTAQEPDTFMEQKITYRIWRDTANW LEINPDTGAISTRAELDREDFEHVKNSTYALIIATDNGSPVATGTGTLILLILSDV NDNAPIPEPRTIFFCERNPKPQVINIIDADLPPNTSPFTAELTHGASANWTIQYN DPTQESIILKPKMALEVGDYKINLKLMDNQNKDQVTTLEVSVCDCEGAAGVCR KAQPVEAGLQI
<b>Research Area</b>	Signal Transduction
<b>Source</b>	E.coli
<b>Target Names</b>	CDH1
<b>Expression Region</b>	155-707aa
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	N-terminal 6xHis-tagged
<b>Mol. Weight</b>	64.4kDa
<b>Protein Length</b>	Partial
<b>Image</b>	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

## Description

The Human CDH1 recombinant protein is conventionally generated by transfecting the recombinant DNA into a host cell, and then the host cells are cultured and the transfected DNA transcribed and translated. Different host cells can be chosen for recombinant protein production, the choice of which depends on the type of protein that needs to be generated, its functional activity and requisite yield. We choose E.coli as the expression system for this CDH1 protein expression because bacteria cells are easy to culture, grow fast and produce high yields of recombinant protein.

CDH1 is a protein coding gene that encodes Cadherin-1. According to some studies, CDH1 may have the following features.

CDH1 promoter methylation is the second hit in more than half of sporadic diffuse gastric cancer cases harboring CDH1 mutations. CDH1 should be investigated as a cause of genetic susceptibility to gastric and colorectal cancer. Cdh1 is required to prevent irregular proliferation of specific progenitor cells and to protect mammalian cells from genomic instability. Recurrent CDH1 mutations in families with hereditary diffuse gastric cancer result from independent mutational events and a common ancestor.

## Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

## Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.

Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.