

# Product Information

## MemDX™ Membrane Protein Human CDH5 (Cadherin 5) Full Length

Cat. No.: **MPC0459K**

This product is for research use only and is not intended for diagnostic use.

This product is a 87.5 kDa Human CDH5 membrane protein expressed in HEK293. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

### Product Specifications

#### Host Species

Human

#### Target Protein

CDH5

#### Protein Length

Full length

#### Protein Class

Cell adhesion

#### Molecular Weight

87.5 kDa

#### TMD

1

#### Sequence

MQRLMMLLATSGACLGLLAVAAVAAAGANPAQRDTHSLLPTHRQKRDWI  
WNQMHIDE EKNTSLPHHVGGIKSSVSRKNAKYLLKGEYVGKVFRVDAETG  
DVFAIERLDRENISEYHLTAVIVDKDTGENLETPSSFTIKVHDVNDNWPV  
FTHRLFNASVPESSAVGTSVISVTAVDADDPTVGDHASVMYQILKGKEYF  
AIDNSGRIITITKSLDREKQARYEIVVEARDAQGLRGDSGTATVLVTLQD  
INDNFPFFTQTKYTFVVPEDTRVGTSGSLFVEDPDEPQNRMTKYSILRG  
DYQDAFTIETNPAHNEGIIKPMKPLDYEYIQQYSFIVEATDPTIDLRYS  
PPAGNRAQVIINITDVDEPPIFQQPFYHFQLKENQKKPLIGTVLAMDPDA  
ARHSIGYSIRRTSDKGQFFRVTKKGDYNEKELDREVYPWYNLTVEAKEL  
DSTGTPTGKESIVQVHIEVL DENDNAPEFAKPYQPKVCENAVH GQLVLQI  
SAIDKDITPRNVKFKFILNTENNFTLTDNHDNTANITVKYGGQFDREHTKV  
HFLPVVISDNGMPSRTGTSTLTAVCKCNEQGEFTFCEDMAAQVGVSIQA  
VVAILLCILTITVITLLIFLRRRLRKQARAHGKSVPEIHEQLVTYDEEGG  
GEMDTTSYDVSVLNSVRRGGAKPPRPALDARPSLYAQVQKPPRHAPGAHG  
GPGEMAAMIEVKKDEADHDGDGPPYDTLHIYGYEGSESIAESLSSLGTDS  
SDSDVDYDFLNDWGPFRKMLAELYGSDPREELLY

### Product Description

## Expression Systems

HEK293

## Tag

Based on specific requirements

## Protein Format

Detergent or based on specific requirements

## Form

Liquid

## Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -70°C or lower. Avoid freeze/thaw cycles.

## Target

### Target Protein

CDH5

### Full Name

Cadherin 5

### Introduction

This gene encodes a classical cadherin of the cadherin superfamily. The encoded preproprotein is proteolytically processed to generate the mature glycoprotein. This calcium-dependent cell-cell adhesion molecule is comprised of five extracellular cadherin repeats, a transmembrane region and a highly conserved cytoplasmic tail. Functioning as a classical cadherin by imparting to cells the ability to adhere in a homophilic manner, this protein plays a role in endothelial adherens junction assembly and maintenance. This gene is located in a gene cluster in a region on the long arm of chromosome 16 that is involved in loss of heterozygosity events in breast and prostate cancer.

### Alternative Names

7B4; CD144; cadherin-5; 7B4 antigen; VE-cadherin; cadherin 5, type 2 (vascular endothelium); cadherin 5, type 2, VE-cadherin (vascular epithelium); cd144 antigen; endothelial-specific cadherin; vascular endothelial cadherin; CDH5; Cadherin 5

### Gene ID

[1003](#)

### UniProt ID

[P33151](#)