

# Product Information

## **MemDX™ Membrane Protein Human CDH5 (Cadherin 5) Expressed *in vitro* E.coli** **expression system, Full Length of Mature Protein**

Cat. No.: **MPX4019K**

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

This product is a Human CDH5 membrane protein expressed *in vitro* E.coli expression system. 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 of Mature Protein

#### Protein Class

Cell adhesion

#### TMD

1

#### Sequence

DWIWNQMHI DEEKNTSLPHHV GGIKSSVSRKNAKYLLKGEYVGKVFRVDAETGDVFAIERLDRENISEYHLTAVIVDKDTGENLETPS

### Product Description

#### Expression Systems

*in vitro* E.coli expression system

#### Tag

10xHis tag at the N-terminus

#### Protein Format

Soluble

#### Form

Liquid or Lyophilized powder

#### Buffer

Tris/PBS-based buffer, 6% Trehalose, pH 8.0

### 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

CDH5; 7B4; CD144; 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; Cadherin 5

#### Gene ID

[1003](#)

#### UniProt ID

[P33151](#)