

## Recombinant Human Cadherin 5, Type 2 (Vascular Endothelium), Fc-His

**Cat. No.** CDH5-1696H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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| <b>Product Overview</b> | Recombinant Human Vascular endothelial-cadherin encoding the extracellular domain of human Vascular Endothelial (VE)-Cadherin (amino acid residues 1 - 593) was fused to the 6X his-tagged Fc region of human IgG1 via a polypeptide linker. The chimeric protein was expressed in <i>NSO cells</i> .                                                                                                                                                                                                                                                                                                                                            |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Source</b>           | Mammalian Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>ProteinLength</b>    | 1-593 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Description</b>      | Vascular endothelial-cadherin (VE-Cadherin) also known as cadherin-5 is an endothelial specific, homophilic adhesion molecule located at the lateral cell surface. VE-Cadherin is crucial for the proper assembly of vascular structures and the maintenance of vascular integrity. It plays a pivotal role in the formation, maturation and remodeling of the vascular wall. VE-cadherin is a positive and endothelial cell-specific regulator of transforming growth factor-beta (TGF-beta) signaling. Therefore, the reduction or inactivation of VE-cadherin may contribute to progression of diseases where TGF-beta signaling is impaired. |
| <b>State Of Matter</b>  | Lyophilized.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Purity</b>           | >95% by SDS Page and analyzed by silver stain.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

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|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Endotoxin</b>             | <0.1 ng per 1 g as determined by the LAL method.                                                                                                                                                                                                                                |
| <b>Molecular Weight</b>      | The predicted molecular weight of Recombinant Human VE-Cadherin is Mr 92 kDa. However, the actual molecular weight as observed by migration on SDS Page is Mr 116 kDa.                                                                                                          |
| <b>Formulation</b>           | 0.2 µ filtered and lyophilized from PBS.                                                                                                                                                                                                                                        |
| <b>Storage And Stability</b> | This lyophilized protein is stable for six to twelve months when stored desiccated at -20°C to -70°C. After aseptic reconstitution, this protein may be stored at 2°C to 8°C for one month or at -20°C to -70°C in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles. |

## GENE INFORMATION

|                       |                                                                                                                                                                                                                                                                                                                     |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>      | CDH5 cadherin 5, type 2 (vascular endothelium) [ Homo sapiens ]                                                                                                                                                                                                                                                     |
| <b>Synonyms</b>       | cadherin 5, type 2 (vascular endothelium); 7B4; CD144; FLJ17376; CDH5; cadherin 5, type 2; 7B4 antigen; VE-cadherin; cd144 antigen; endothelial-specific cadherin; vascular endothelial cadherin; cadherin 5, type 2, VE-cadherin (vascular epithelium) ; VE-cadherin; CD144 antigen; Vascular endothelial cadherin |
| <b>Gene ID</b>        | 1003                                                                                                                                                                                                                                                                                                                |
| <b>mRNA Refseq</b>    | NM_001795                                                                                                                                                                                                                                                                                                           |
| <b>Protein Refseq</b> | NP_001786                                                                                                                                                                                                                                                                                                           |
| <b>MIM</b>            | 601120                                                                                                                                                                                                                                                                                                              |
| <b>UniProt ID</b>     | P33151                                                                                                                                                                                                                                                                                                              |

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|----------------------------|------------------------------------------------------------------------------------------------------------------------------|
| <b>Chromosome Location</b> | 16q22.1                                                                                                                      |
| <b>Pathway</b>             | Cell adhesion molecules (CAMs); Leukocyte transendothelial migration; Cell junction organization; Cell-cell adhesion systems |
| <b>Function</b>            | RPTP-like protein binding; calcium ion binding; protein phosphatase binding; receptor binding                                |

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