

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

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

SPECIFICATION

Product Overview	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> .
Species	Human
Source	Mammalian Cells
ProteinLength	1-593 a.a.
Description	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.
State Of Matter	Lyophilized.
Purity	>95% by SDS Page and analyzed by silver stain.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Endotoxin	<0.1 ng per 1 g as determined by the LAL method.
Molecular Weight	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.
Formulation	0.2 µ filtered and lyophilized from PBS.
Storage And Stability	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

Gene Name	CDH5 cadherin 5, type 2 (vascular endothelium) [Homo sapiens]
Synonyms	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
Gene ID	1003
mRNA Refseq	NM_001795
Protein Refseq	NP_001786
MIM	601120
UniProt ID	P33151

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

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