

Recombinant Mouse Cdh5 Protein, His-tagged

Cat. No. Cdh5-364M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse CDH5, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Species	Mouse
Source	Insect Cells
Description	CDH5, also known as cadherin-5, is a classical cadherin from the cadherin superfamily and the gene is located in a six-cadherin cluster in a region on the long arm of chromosome 16 that is involved in loss of heterozygosity events in breast and prostate cancer. The encoded protein is a calcium-dependent cell-cell adhesion glycoprotein composed of five extracellular cadherin repeats, a transmembrane region and a highly conserved cytoplasmic tail. Functioning as a classic cadherin by imparting to cells the ability to adhere in a homophilic manner, the protein may play an important role in endothelial cell biology through control of the cohesion and organization of the intercellular junctions.
Form	Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.
Molecular Mass	66.2kDa (583aa)70-100kDa (SDS-PAGE under reducing conditions)
AA Sequence	GPNFPQIDTP NMLPAHHRQK RDWIWNQMHI DEEKNESLPH YVGKIKSNVN RQNAKYVLQG EFAGKIFGVD ANTGNVLAYE RLDREKVSEYFLTALIVDKN TNKNLEQPSS FTVKVHDIND NWPVFESHQVF NASVPEMSAI GTSVIRVTAV DADDPTVAGH ATVLYQIVKG NEYFSIDNSGLIFTKIKNLD REKQAEYKIV

 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

VETQDALGLR GESGTATVMI RLEDINDNFP VFTQSTYTFS VPEDIRVGKP
 LGFLTVDPD EPQNRMTKYSIMQGEYRDTF TIETDPKRNE GIIKPTKSLD
 YEVIQQYTFY IEATDPTIRY EYLSSTSGKN KAMVTINVLD VDEPPVFQRH
 FYHFKLPENQKKPLIGTVVA KDPDKAQRSI GYSIRKTSR GQFFRITKQG
 NIYNEKELDR ETYAWYNLTV EANELDSRGN PVGKESIVQV
 YIEVLDENDNPPEFAQPYEP KVCENAAQGK LVVQISATDK DVVPVNPKEK
 FALKNEDSNF TLINNHDNTA NITVKYGQFN REHAKFHLYP
 VLISDNGVPSLTGTSTLTVG VCKCNEQGEF TFCEEMAAQA GVSQLEHHH HHH

Endotoxin < 1.0 EU per 1 microgram of protein (determined by LAL method)

Purity >90% by SDS - PAGE

Storage Can be stored at +4 centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20 centigrade or -70 centigrade. Avoid repeated freezing and thawing cycles.

Concentration 0.5mg/ml (determined by Absorbance at 280nm)

GENE INFORMATION

Gene Name [Cdh5 cadherin 5 \[Mus musculus \]](#)

Official Symbol [Cdh5](#)

Synonyms CDH5; cadherin 5; cadherin-5; VE-cadherin; 7B4/cadherin-5; vascular endothelial cadherin; 7B4; Vec; VECD; Cd144; VEcad; VE-Cad; AA408225;

Gene ID [12562](#)

mRNA Refseq [NM_009868](#)

 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

Protein Refseq	NP_033998
MIM	
UniProt ID	
Pathway	Adherens junctions interactions, organism-specific biosystem; Cell adhesion molecules (CAMs), organism-specific biosystem; Cell adhesion molecules (CAMs), conserved biosystem; Cell junction organization, organism-specific biosystem; Cell-Cell communication, organism-specific biosystem; Cell-cell junction organization, organism-specific biosystem; Leukocyte transendothelial migration, organism-specific biosystem;
Function	RPTP-like protein binding; beta-catenin binding; calcium ion binding; ion channel binding; protein binding; protein phosphatase binding; receptor binding;