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**Product Data Sheet**


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Product Name: CDH5 Mouse

Cat. No.: GP23106

Batch No.: 1

**Product Data**

Purity	>98%	Source	Sf9, Insect cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Cadherin-5;Vascular endothelial cadherin; VE-cadherin; CD144; Cdh5.		
Amino Acid Sequence	<p>           GPNFPQIDTP NMLPAHHRQK RDWIWNQMHI DEEKNESLPHYVGKIKSNVN            RQNAKYVLQG EFAGKIFGVD ANTGNVLAYE RLDREKVSEY FLTALIVDKN            TNKNLEQPSSFTVKVHDIND NWPVFSHQVF NASVPEMSAI GTSVIRVTAV            DADDPTVAGH ATVLYQIVKG NEYFSIDNSGLIFTKIKNLD REKQAEYKIV            VETQDALGLR GESGTATVMI RLEDINDNFP VFTQSTYTFS            VPEDIRVGKPLGFLTVDPD EPQNRMTKYS IMQGEYRDTF TIETDPKRNE            GIIKPTKSLD YEVIQQYTFY IEATDPTIRYEYLSSTSGKN KAMVTINVLD            VDEPPVFQRH FYHFKLPEHQ KKPLIGTVVA KDPDKAQRSI            GYSIRKTSDRGQFFRITKQG NIYNEKELDR ETYAWYNLTV EANELDSRGN            PVGKESIVQV YIEVLDENDN PPEFAQPYEPKVCENAAQGK LVVQISATDK            DVVPVNPQFK FALKNEDSNF TLINNHDNTA NITVKYGFN            REHAKFHYPVLISDNGVPS LTGTSTLTVG VCKCNEQGEF TFCEEMAAQA            GVSIQLEHHH HHH.         </p>		
Formulation	CDH5 protein solution (0.5mg/ml) contains phosphate buffered saline (pH7.4) and 10% glycerol.		

**Introduction**

Cadherin-5, also known as CDH5 is a classical cadherin which belongs to the cadherin superfamily. The CDH5 is located in a six-cadherin cluster in a region on the long arm of chromosome 16 which is involved in loss of heterozygosity events in breast as well as prostate cancer. CDH5 is a calcium-dependent cell-cell adhesion glycoprotein composed of five extracellular cadherin repeats, a transmembrane region and a highly conserved cytoplasmic tail. Furthermore, CDH5 functions as a classic cadherin by passing on to cells the ability to adhere in a homophilic manner, CDH5 plays a significant role in endothelial

**Caution: Product has not been fully validated for medical applications. For research use only.**

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cell biology through control of the cohesion as well as organization of the intercellular junctions.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

CDH5 produced in Sf9 Insect cells is a single, glycosylated polypeptide chain containing 583 amino acids (25-599 a.a.) and having a molecular mass of 66.2 kDa. (Molecular size on SDS-PAGE will appear at approximately 70-100 kDa). CDH5 is expressed with an 8 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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