Recombinant mouse VE-Cadherin/CDH5 protein

Catalog Number: ATGP3209

PRODUCT INFORMATION

Expression system
Baculovirus

Domain
25-599aa

UniProt No.
P55284

NCBI Accession No.
NP_033998.2

Alternative Names
Cdh5, 7B4, AA408225, Cd144, VE-Cad, Vec, VEcad, VECD, Vascular endothelial cadherin

PRODUCT SPECIFICATION

Molecular Weight
66.2 kDa (583aa)

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

Formulation
Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity
> 90% by SDS-PAGE

Endotoxin level
< 1 EU per 1ug of protein (determined by LAL method)

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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

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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. Recombinant mouse CDH5, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

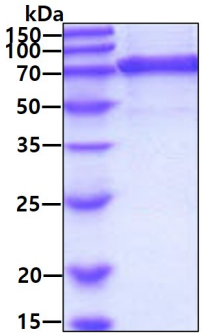
GPNFPQIDTP NMLPAHHRQK RDWIWNQMHI DEEKNESLPH YVGKIKSNVN RQNAKYVLQG EFAGKIFGVD ANTGNVLAYE RLDREKVSEY FLTALIVDKN TNKNLEQPSS FTVKVHDIND NWPVFSHQVF NASVPEMSAI GTSVIRVTAV DADDPTVAGH ATVLYQIVKG NEYFSIDNSG LIFTKIKNLD REKQAEYKIV VETQDALGLR GESGTATVMI RLEDINDNFP VFTQSTYTFS VPEDIRVGKP LGFLTVVDPD EPQNRMTKYS IMQGEYRDTF TIETDPKRNE GIIKPTKSLD YEVIQQYTFY IEATDPTIRY EYLSSTSGKN KAMVTINVLD VDEPPVFQRH FYHFKLPENQ KKPLIGTVVA KDPDKAQRSI GYSIRKTSDR GQFFRITKQG NIYNEKELDR ETYAWYNLTV EANELDSRGN PVGKESIVQV YIEVLDENDN PPEFAQPYEP KVCENAAQGK LVVQISATDK DVVPVNPKFK FALKNEDSNF TLINNHDNTA NITVKYGQFN REHAKFHYLP VLISDNGVPS LTGTSTLTVG VCKCNEQGEF TFCEEMAAQA GVSIQ<LEHHH HHH>

General References

Matsuyoshi N., et al. (1997) Proc Assoc Am Physicians. 109:362-371.
Duguay D., et al. (2003) Dev Biol. 253:309-23.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain