

Cadherin-5, 25-599aa, Mouse, His tag, Insect cell

Cat.NO.: TP01400

3th Edition

Synonyms:Cdh5, 7B4, AA408225, Cd144, VE-Cad, Vec, VEcad, VECD

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

Form:Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.

Molecular Weight:66.2kDa (583aa) 70-100kDa (SDS-PAGE under reducing conditions)

Sequences:

GPNFPQIDTPNMLPAHHRQKRDWIWNQMHI DEEKNESLPHYVVGKIKSNVNRQNAKYVVLQGEFAGKIFGVDANTGN
VLAYERLDREKVSEYFLTALIVDKNTNKNLEQPSSFTVKVHDINDNWPVFSHQVFNASVPEMSAIGTSVIRVTAVDA
DDPTVAGHATVLYQIVKGN EYFSIDNSGLIFTKIKNLDREKQAEYKIVVETQDALGLRGESGTATVMIRLEDINDNFPV
FTQSTYTFSPEDIRVGKPLGFLTVVDPDEPQNRMTKYSIMQGEYRDTFTIETDPKRNEGIKPTKSLDYEVIIQQYTF
YIEATDPTIRYEYLSSTSGKNKAMVTINVLVDVDEPPVFQRHFYHFKLPENQKPLIGTVVAKDPDKAQRSIGYSIRKTS
DRGQFFRITKQGN IYNEKELDRETYAWYNLTVEANELDSRGNPVGKESIVQVYIEVLDENDNPPEFAQPYEPKVCE
NAAQGKLVVQISATDKDVVPVNP KFKFALKNEDSNFTLINNH DNTANITVKYGFNREHAKFH YLPVLISDNGVPSLT
GTSTLTVGVCKCNEQGEFTFCEEMAAQAGVSIQLEHHHHHH

Purity:> 95% by HPLC

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

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

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