Recombinant human VE-Cadherin/CDH5 protein

Catalog Number: ATGP3506

PRODUCT INFORMATION

Expression system
Baculovirus

Domain
29-599aa

UniProt No.
P33151

NCBI Accession No.
NP_001786.2

Alternative Names
Cadherin-5, CDH5, 7B4, CD144, Vascular endothelial cadherin

PRODUCT SPECIFICATION

Molecular Weight
91.5 kDa (810aa)

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
hIgG-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, as known as cadherin-5, is a member of the atypical/type 2 subgroup of Cadherin homophilic adhesion proteins. This protein plays a role in the formation, maturation and remodeling of the vascular wall. It is widely considered to be specific for vascular endothelia in which it is either the sole or the predominant cadherin, often co-existing with N-cadherin. Also, this protein regulates or is regulated by VEGF R2, type 1 and type 2 TGF-beta

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receptors, and other endothelial junction proteins such as JAM-C, Claudin-5, and N-Cadherin. Recombinant human CDH5, fused to hIgG-His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

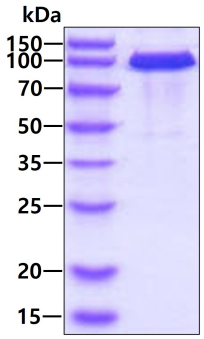
NPAQRDTHSL LPTHRRQKRD WIWNQMHIDE EKNTSLPHHV GKIKSSVSRK NAKYLLKGEY VGKVFRVDAE TGDVFAIERL DRENISEYHL TAVIVDKDTG ENLETPSSFT IKVHDVNDNW PVFTHRLFNA SVPESSAVGT SVISVTAVDA DDPTVGDHAS VMYQILKGKE YFAIDNSGRI ITITKSLDRE KQARYEIVVE ARDAQGLRGD SGTATVLVTL QDINDNFPFF TQTKYTFVVP EDTRVGTSVG SLFVEDPDEP QNRMTKYSIL RGDYQDAFTI ETNPAHNEGI IKPMKPLDYE YIQQYSFIVE ATDPTIDLRY MSPPAGNRAQ VIINITDVDE PPIFQQPFYH FQLKENQKKP LIGTVLAMDP DAARHSIGYS IRRTSDKGQF FRVTKKGDIY NEKELDREVY PWYNLTVEAK ELDSTGTPTG KESIVQVHIE VLDENDNAPE FAKPYQPKVC ENAVHGQLVL QISAIDKDIT PRNVKFKFIL NTENNFTLTD NHDNTANITV KYGQFDREHT KVHFLPVVIS DNGMPSRTGT STLTVAVCKC NEQGEFTFCE DMAAQVGVSI Q<LEPKSCDKT HTCPPCPAPE LLGGPSVFLF PPKPKDTLMI SRTPEVTCVV VDVSHEDPEV KFNWYVDGVE VHNAKTKPRE EQYNSTYRVV SVLTVLHQDW LNGKEYKCKV SNKALPAPIE KTISKAKGQP REPQVYTLPP SRDELTKNQV SLTCLVKGFY PSDIAVEWES NGQPENNYKT TPPVLDSDGS FFLYSKLTVD KSRWQQGNVF SCSVMHEALH NHYTQKSLSL SPGKHHHHHH>

General References

Yan Z., et al, (2016) Arterioscler. Thromb. Vasc. Biol. 36:339-349.
Timmerman I., et al, (2015) J. Cell. Sci. 128:3041-3054.

DATA

SDS-PAGE



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