Recombinant Human VCL Protein, His-tagged

Cat. No. VCL-554H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human VCL Protein (Val3-Arg485) with N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Val3-Arg485
Description	Vinculin is a cytoskeletal protein associated with cell-cell and cell-matrix junctions, where it is thought to function as one of several interacting proteins involved in anchoring F-actin to the membrane. Defects in VCL are the cause of cardiomyopathy dilated type 1W. Dilated cardiomyopathy is a disorder characterized by ventricular dilation and impaired systolic function, resulting in congestive heart failure and arrhythmia. Multiple alternatively spliced transcript variants have been found for this gene, but the biological validity of some variants has not been determined.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 56.6 kDa Accurate Molecular Mass: 57 kDa
Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.

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Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1 mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in sterile water to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	VCL vinculin [Homo sapiens (human)]
Official Symbol	VCL
Synonyms	VCL; vinculin; metavinculin; MVCL; CMD1W; CMH15
Gene ID	7414
mRNA Refseq	NM_003373
Protein Refseq	NP_003364
MIM	193065
UniProt ID	P18206

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