

## Recombinant Human VCL, His-tagged

Cat. No. VCL-01H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human vinculin (P18206-2) (Met 1-Gln 1066), fused with a polyhistidine tag at the C-terminus, was expressed in Human Cells
<b>Species</b>	Human
<b>Source</b>	Human Cells
<b>Description</b>	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.
<b>Predicted N Terminal</b>	Met 1
<b>Form</b>	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose and mannitol are added as protectants before lyophilization.
<b>Molecular Mass</b>	The recombinant human VCL consists of 1077 amino acids and has a calculated molecular mass of 118 kDa. The apparent molecular mass of rhVCL is approximately 115 kDa in SDS-PAGE under reducing conditions.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method

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<b>Purity</b>	> 90 % as determined by SDS-PAGE.
<b>Stability</b>	Samples are stable for up to twelve months from date of receipt at -70 °C.
<b>Storage</b>	Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage. Avoid repeated freeze-thaw cycles.
<b>Reconstitution</b>	Detailed reconstitution instructions are sent along with the products.

## GENE INFORMATION

<b>Gene Name</b>	VCL vinculin [ Homo sapiens (human) ]
<b>Official Symbol</b>	VCL
<b>Synonyms</b>	VCL; MV; MVCL; CMD1W; CMH15; HEL114; vinculin; epididymis luminal protein 114; metavinculin
<b>Gene ID</b>	7414
<b>mRNA Refseq</b>	NM_003373
<b>Protein Refseq</b>	NP_003364
<b>MIM</b>	193065
<b>UniProt ID</b>	P18206
<b>Chromosome Location</b>	10q22.2

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<b>Pathway</b>	Adherens junction; Bacterial invasion of epithelial cells; IL-3 Signaling Pathway
<b>Function</b>	actin binding; NOT actin binding; alpha-catenin binding; beta-catenin binding

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