

Product datasheet for **TP720619M**

Vinculin (VCL) (NM_003373) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Human vinculin (VCL), transcript variant 2
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	Met1- Gln1066
Tag:	Tag Free
Predicted MW:	117 kDa
Concentration:	lot specific
Purity:	>95% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	Provided lyophilized from a 0.2 µm filtered solution of 20 mM Tris-HCl, 150 mM NaCl
Endotoxin:	Endotoxin level is < 0.1 ng/µg of protein (< 1 EU/µg)
Reconstitution Method:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. Dissolve the lyophilized protein in ddH ₂ O. It is not recommended to reconstitute a concentration less than 100 µg/ml. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Storage:	Store at -80°C.
Stability:	Stable for at least 6 months from date of receipt under proper storage and handling conditions.
RefSeq:	NP_003364
Locus ID:	7414
UniProt ID:	P18206 , A0A024QZN4 , B3KXA2
RefSeq Size:	5443
Cytogenetics:	10q22.2
RefSeq ORF:	3198
Synonyms:	CMD1W; CMH15; HEL114; MV; MVCL



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Summary:

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. [provided by RefSeq, Jul 2008]

Protein Families:

Druggable Genome

Protein Pathways:

Adherens junction, Focal adhesion, Leukocyte transendothelial migration, Regulation of actin cytoskeleton