

Recombinant Human VCL Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. VCL-1302H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	VCL MS Standard C13 and N15-labeled recombinant protein (NP_003364) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	116.7 kDa
AA Sequence	MPVFHTRTIESILEPVAQQISHLVIMHEEGEVDGKAIPDLTAPVAAVQAAVSNLVRVG KETVQTTEQILKRDMPAPAFIKVENACTKLQAAQMLQSDPYSPARDYLIDGSRGIL SGTSDLLLTDFDEAEVRKIIRVCKGILEYLTVAEVEVETMEDLVITYTKNLGPGMTKMAKM IDERQQELTHQEHRVMLVNSMNTVKELLPVLISAMKIFVTTKNSKNQGIEEALKNRNF TLEKMSAEINEIIRVLQLTSWDEDAWASKDTEAMKRALASIDSKLNQAKGWLDP SPGDAGEQAIRQILDEAGKVGELCAGKERREILGTCKMLGQMTDQVADLRARGQGS

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SPVAMQKAQQVSQGLDVLTAKVENAARKLEAMTNSKQSIAKKIDAAQNWLADPNG
 GPEGEEQIRGALAEARKIAELCDDPKERDDILRSLGEISALTSKLADLRRQGKGDSPE
 ARALAKQVATALQNLQTKTNRAVANSRPAKAAVHLEGKIEQAQRWIDNPTVDDRGV
 GQAAIRGLVAEGHRLANVMMGPYRQDLLAKCDRVDQLTAQLADLAARGESESPQA
 RALASQLQDSLKDLKARMQEAMTQEVSDVFSDTTTPIKLLAVAATAPPDAPNREEVF
 DERAANFENHSGKLGATAEKAAAVGTANKSTVEGIQASVKTARELTPQVVSAAARILL
 RNPGNQAAAYEHFETMKNQWIDNVEKMTGLVDEAIDTKSLLDASEEAIKKDLCKVA
 MANIQPQMLVAGATSIARRANRILLVAKREVENSEDPKFREAVKAASDELSKTISPMV
 MDAKAVAGNISDPGLQKSFLDSGYRILGAVAKVREAFQPQEPDFPPPPPDLEQLRLT
 DELAPPKPPLPEGEVPPPPRPPPPPEEKDEEFPEQKAGEVINQPMMAARQLHDEAR
 KWSSKGNIIAAAKRMALLMAEMSRLVRGGSGTKRALIQCAKDIKASDEVTRLAKE
 VAKQCTDKRIRTNLLQVCERIPTISTQLKILSTVKATMLGRTNISDEESEQATEMLVHN
 AQNLMQSVKETVREAEAASIKIRTDAGFTLRWVRKTPWYQTRTRPLEQKLISEEDLA
 ANDILDYKDDDDKV

Purity

> 80% as determined by SDS-PAGE and Coomassie blue staining

Stability

Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage

Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration

50 µg/mL as determined by BCA

Storage Buffer

100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name

VCL vinculin [Homo sapiens (human)]

Official Symbol

VCL

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Synonyms	VCL; vinculin; metavinculin; MVCL; CMD1W; CMH15;
Gene ID	7414
mRNA Refseq	NM_003373
Protein Refseq	NP_003364
MIM	193065
UniProt ID	P18206
SDS-PAGE	