

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

Cat. No. VCP-6354H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	VCP MS Standard C13 and N15-labeled recombinant protein (NP_009057) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes a member of the AAA ATPase family of proteins. The encoded protein plays a role in protein degradation, intracellular membrane fusion, DNA repair and replication, regulation of the cell cycle, and activation of the NF-kappa B pathway. This protein forms a homohexameric complex that interacts with a variety of cofactors and extracts ubiquitinated proteins from lipid membranes or protein complexes. Mutations in this gene cause IBMPFD (inclusion body myopathy with paget disease of bone and frontotemporal dementia), ALS (amyotrophic lateral sclerosis) and Charcot-Marie-Tooth disease in human patients.
Molecular Mass	89.3 kDa
AA Sequence	MASGADSKGDDLSTAILKQKNRPNRLIVDEAINEDNSVVSLSQPKMDELQLFRGDTV LLKGKKRREAVCIVLSDDTCSDEKIRMNRVVRNNLRVRLGDVISIQPCPDVKYGKRIH VLPIDDTVEGITGNLFEVYLKPYFLEAYRPIRKGDIFLVRGGMRAVEFKVVETDPSPY CIVAPDTVIHCEGEPIKREDEEESLNEVGYYDDIGGCRKQLAQIKEMVELPLRHPALFK AIGVKPPRGILLYGPPGTGKTLIARAVANETGAFFFLINGPEIMSKLAGESESNLRKAF

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EEAEKNAPAIIFIDELDAIAPKREKTHGEVERRIVSQLLTLM DGLKQRAHVIVMAATNR
 PNSIDPALRRFGRFDREVDIGIPDATGRLEILQIHTKNMKLADDVDLEQVANETHGHV
 GADLAALCSEAALQAIRKKMDLIDLEDETIDAEVMNSLAVTMDDFRWALSQSNPSAL
 RETVVEVPQVTWEDIGGLEDVKRELQELVQYPVEHPDKFLKFGMTPSKGVLFYGGP
 GCGKTLAKAIAANECQANFISIKGPELLTMWFGSEANVREIFDKARQAAPCVLFFDE
 LDSIAKARGGNIGDGGGAADRVINQILTEMDGMSTKKNVFIIGATNRPDIIDPAILRPG
 RLDQLIYIPLPDEKSRVAILKANLRKSPVAKDVDLEFLAKMTNGFSGADLTEICQRACK
 LAIRESIESEIRRERERQTNP SAMEVEEDDPVPEIRRDHFEEAMRFARRSVSDNDIRK
 YEMFAQTLQQSRGFGSFRFSPGNQGGAGPSQGGSGGGTGGSVYTEDNDDDLYGTR
 TRPLEQKLISEEDLAANDILDYKDDDDKV

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 VCP valosin containing protein [Homo sapiens (human)]

Official Symbol VCP

Synonyms VCP; valosin containing protein; transitional endoplasmic reticulum ATPase; IBMPFD; p97; TER ATPase; yeast Cdc48p homolog; valosin-containing protein; 15S Mg(2+)-ATPase p97 subunit; TERA; ALS14; MGC8560; MGC131997; MGC148092;

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Gene ID	7415
mRNA Refseq	NM_007126
Protein Refseq	NP_009057
MIM	601023
UniProt ID	P55072
SDS-PAGE	