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Datasheet for ABIN3134779 VCP Protein (AA 2-806) (His tag)

Image



Overview

Quantity:	1 mg
Target:	VCP
Protein Characteristics:	AA 2-806
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This VCP protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:	ASGADSKGDD LSTAILKQKN RPNRLIVDEA INEDNSVVSL SQPKMDELQL FRGDTVLLKG
	KKRREAVCIV LSDDTCSDEK IRMNRVVRNN LRVRLGDVIS IQPCPDVKYG KRIHVLPIDD
	TVEGITGNLF EVYLKPYFLE AYRPIRKGDI FLVRGGMRAV EFKVVETDPS PYCIVAPDTV
	IHCEGEPIKR EDEEESLNEV GYDDIGGCRK QLAQIKEMVE LPLRHPALFK AIGVKPPRGI
	LLYGPPGTGK TLIARAVANE TGAFFFLING PEIMSKLAGE SESNLRKAFE EAEKNAPAII
	FIDELDAIAP KREKTHGEVE RRIVSQLLTL MDGLKQRAHV IVMAATNRPN SIDPALRRFG
	RFDREVDIGI PDATGRLEIL QIHTKNMKLA DDVDLEQVAN ETHGHVGADL AALCSEAALQ
	AIRKKMDLID LEDETIDAEV MNSLAVTMDD FRWALSQSNP SALRETVVEV PQVTWEDIGG
	LEDVKRELQE LVQYPVEHPD KFLKFGMTPS KGVLFYGPPG CGKTLLAKAI ANECQANFIS
	IKGPELLTMW FGESEANVRE IFDKARQAAP CVLFFDELDS IAKARGGNIG DGGGAADRVI
	NQILTEMDGM STKKNVFIIG ATNRPDIIDP AILRPGRLDQ LIYIPLPDEK SRVAILKANL
	RKSPVAKDVD LEFLAKMTNG FSGADLTEIC QRACKLAIRE SIESEIRRER ERQTNPSAME

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	VEEDDPVPEI RRDHFEEAMR FARRSVSDND IRKYEMFAQT LQQSRGFGSF RFPSGNQGGA
	GPSQGSGGGT GGSVYTEDND DDLYG
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	special request, please contact us.
Characteristics:	 Made in Germany - from design to production - by highly experienced protein experts. Mouse Vcp Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade. State-of-the-art algorithm used for plasmid design (Gene synthesis).
	This protein is a made to order protein and will be made for the first time for your order. Our
	experts in the lab will ensure that you receive a correctly folded protein.
	The big advantage of ordering our made-to-order proteins in comparison to ordering custom
	made proteins from other companies is that there is no financial obligation in case the protein
	cannot be expressed or purified.
	In the unlikely event that the protein cannot be expressed or purified we do not charge anything
	(other companies might charge you for any performed steps in the expression process for
	custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression
	experiments or purification optimization).
	When you order this made-to-order protein you will only pay upon receival of the correctly
	folded protein. With no financial risk on your end you can rest assured that our experienced
	protein experts will do everything to make sure that you receive the protein you ordered.
	The concentration of our recombinant proteins is measured using the absorbance at 280nm.
	The protein's absorbance will be measured in several dilutions and is measured against its
	specific reference buffer.
	The concentration of the protein is calculated using its specific absorption coefficient. We use
	the Expasy's protparam tool to determine the absorption coefficient of each protein.
Purification:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells:
	 In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin free.

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Product Details

Grade:

Crystallography grade

Target Details

Target:	VCP
Alternative Name:	Vcp (VCP Products)
Background:	Necessary for the fragmentation of Golgi stacks during mitosis and for their reassembly after
	mitosis. Involved in the formation of the transitional endoplasmic reticulum (tER). The transfer
	of membranes from the endoplasmic reticulum to the Golgi apparatus occurs via 50-70 nm
	transition vesicles which derive from part-rough, part-smooth transitional elements of the
	endoplasmic reticulum (tER). Vesicle budding from the tER is an ATP-dependent process. The
	ternary complex containing UFD1L, VCP and NPLOC4 binds ubiquitinated proteins and is
	necessary for the export of misfolded proteins from the ER to the cytoplasm, where they are
	degraded by the proteasome. The NPLOC4-UFD1L-VCP complex regulates spindle disassemble
	at the end of mitosis and is necessary for the formation of a closed nuclear envelope.
	Regulates E3 ubiquitin-protein ligase activity of RNF19A. Component of the VCP/p97-
	AMFR/gp78 complex that participates in the final step of the sterol-mediated ubiquitination an
	endoplasmic reticulum-associated degradation (ERAD) of HMGCR. Also involved in DNA
	damage response: recruited to double-strand breaks (DSBs) sites in a RNF8- and RNF168-
	dependent manner and promotes the recruitment of TP53BP1 at DNA damage sites. Recruited
	to stalled replication forks by SPRTN: may act by mediating extraction of DNA polymerase eta
	(POLH) to prevent excessive translesion DNA synthesis and limit the incidence of mutations
	induced by DNA damage. Required for cytoplasmic retrotranslocation of stressed/damaged
	mitochondrial outer-membrane proteins and their subsequent proteasomal degradation.
	{ECO:0000250 UniProtKB:P46462, ECO:0000250 UniProtKB:P55072}.
Molecular Weight:	90.1 kDa Including tag.
UniProt:	Q01853
Pathways:	ER-Nucleus Signaling, Positive Regulation of Endopeptidase Activity, Ubiquitin Proteasome
	Pathway
Application Details	
Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies
	as well. As the protein has not been tested for functional studies yet we cannot offer a gurante
	though.

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Application Details	
Comment:	Protein has not been tested for activity yet. In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Images

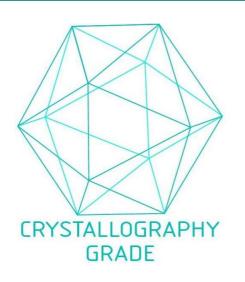


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process

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