

Datasheet for ABIN3092934

HECW1 Protein (AA 1-1606) (Strep Tag)



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1 Image

Overview

Quantity:	1 mg
Target:	HECW1
Protein Characteristics:	AA 1-1606
Origin:	Human
Source:	Tobacco (<i>Nicotiana tabacum</i>)
Protein Type:	Recombinant
Purification tag / Conjugate:	This HECW1 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence: MLLHLCSVKN LYQNRFLGLA AMASPSRNSQ SRRRCKEPLR YSYNPDQFHN MDLRGGPHDG
 VTIPRSTSDT DLVTSDSRST LMVSSSYYSI GHSQDLVIHW DIKEEVDAGD WIGMYLIDEV
 LSENFLDYKN RGVNGSHRGQ IWKIDASSY FVEPETKICF KYHGVSGAL RATTSPVTVK
 NSAAPIFKSI GADETVQGGG SRRLISFSL SDFQAMGLKKG MFFNPDPYLK ISIQPGKHSI
 FPALPHHGQE RRSKIIGNTV NPIWQAEQFS FVSLPTDVLE IEVKDKFAKS RPIIKRFLGK
 LSMPVQRLLE RHAIGDRVVS YTLGRRLPTD HVSGQLQFRF EITSSIHPPD EEISLSTEPE
 SAQIQDSPMN NLMESGSGEP RSEAPESSES WKPEQLGEGS VPDGPGNQSI ELSRPAEEAA
 VITEAGDQGM VSVGPEGAGE LLAQVQKDIQ PAPSAAEELAE QLDLGEESA LLEDGEAPA
 STKEEPLLEE ATTQSRAGRE EEEKEQEEEG DVSTLEQEG RLQLRASVKR KSRPCSLPVS
 ELETVIASAC GDPETPRTHY IRIHTLLHSM PSAQGGSAE EEDGAEEST LKDSSEKDGL
 SEVDTVAADP SALEEDREEP EGATPGTAHP GHSGGHFPSL ANGAAQDGD HPSTGSESDS
 SPRQGGDHSC EGCDASCCSP SCYSSSCYST SCYSSSCYSA SCYSPSCYNG NRFASHTRFS

SVDSAKISES TVFSSQDDEE EENSAFESVP DSMQSPELDPESTNGAGPWQ DELAAPSGHV
ERSPEGLESP VAGPSNRREG ECPILHNSQP VSQPLSLRPE HHHYPTIDEP LPPNWEARID
SHGRVFYVDH VNRTTTWQRP TAAATPDGMR RSGSIQQMEQ LNRRYQNIQR TIATERSEED
SGSQSCEQAP AGGGGGGGSD SEAESSQSSL DLRREGSLSP VNSQKITLLL QSPAVKFITN
PEFFTVLHAN YSAYRVFTSS TCLKHMLKV RRDARNFERY QHNRDLVNFIMNFADTRLEL
PRGWEIKTDQ QGKSFFVDHN SRATTFIDPR IPLQNGRLPN HLTHRQHLQR LRSYSAGEAS
EVSRRNGASL LARPGHSLVA AIRSQHQHES LPLAYNDKIV AFLRQPNIFE MLQERQPSLA
RNHTLREKIH YIRTEGNHGL EKLSCDADLV ILLSLFEEEE MSYVPLQAAF HPGYSFSPRC
SPCSSPQNSP GLQRASARAP SPYRRDFEAK LRNFYRKLEA KGFGQGPVKI KLIIRRDHLL
EGTFNQVMAY SRKELQRNKL YVTFVGE EGL DYSGPSREFF FLLSQELFNP YYGLFEYSAN
DTYTVQISPM SAFVENHLEW FRFSGRILGL ALIHQYLLDA FFTRPFYKAL LRLPCDLSDL
EYLDEEFHQS LQWMKDNNIT DILDLTFTVN EEVFGQVTER ELKSGGANTQ VTEKNKEYI
ERMVKWRVER GVVQQTEALV RGFYEVVDSR LVSVFDAREL ELVIAGTAEI DLNDWRNNTTE
YRGGYHDGHL VIRWFWAAVE RFNNEQRLRL LQFVTGTSSV PYEGFAALRG SNGLRRFCIE
KWGKITSLPR AHTCFNRLDL PPYPSYSMLY EKLLTAVEET STFGL

Sequence without tag. The proposed Strep-Tag is based on experience s with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.

Characteristics:

Key Benefits:

- Made in Germany - from design to production - by highly experienced protein experts.
- Protein expressed with ALiCE® and purified by multi-step, protein-specific process to ensure correct folding and modification.
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- 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.

Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from *Nicotiana tabacum* c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-

Product Details

translational modifications.

- During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!

Concentration:

- 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.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®): <ol style="list-style-type: none">1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE.2. 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:	>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)
Grade:	Crystallography grade

Target Details

Target:	HECW1
Alternative Name:	HECW1 (HECW1 Products)
Background:	E3 ubiquitin-protein ligase HECW1 (EC 2.3.2.26) (HECT, C2 and WW domain-containing protein 1) (HECT-type E3 ubiquitin transferase HECW1) (NEDD4-like E3 ubiquitin-protein ligase 1) (hNEDL1),FUNCTION: E3 ubiquitin-protein ligase that mediates ubiquitination and subsequent degradation of DVL1. Also targets the mutant SOD1 protein involved in familial amyotrophic lateral sclerosis (FALS). Forms cytotoxic aggregates with DVL1, SSR3 and mutant SOD1 that lead to motor neuron death in FALS. {ECO:0000269 PubMed:14684739}.

Target Details

Molecular Weight: 179.6 kDa

UniProt: [Q76N89](#)

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 guarantee though.

Comment: ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from *Nicotiana tabacum* c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.

During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: Unlimited (if stored properly)



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