

Datasheet for ABIN3092932

HDAC5 Protein (AA 1-1122) (Strep Tag)



Go to Product page

()	ve	rvi	6	W
\sim	v C	1 V I	\sim	v v

Quantity:	250 μg
Target:	HDAC5
Protein Characteristics:	AA 1-1122
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This HDAC5 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details			
Brand:	AliCE®		
Sequence:	MNSPNESDGM SGREPSLEIL PRTSLHSIPV TVEVKPVLPR AMPSSMGGGG GGSPSPVELR		
	GALVGSVDPT LREQQLQQEL LALKQQQQLQ KQLLFAEFQK QHDHLTRQHE VQLQKHLKQQ		
	QEMLAAKQQQ EMLAAKRQQE LEQQRQREQQ RQEELEKQRL EQQLLILRNK EKSKESAIAS		
	TEVKLRLQEF LLSKSKEPTP GGLNHSLPQH PKCWGAHHAS LDQSSPPQSG PPGTPPSYKL		
	PLPGPYDSRD DFPLRKTASE PNLKVRSRLK QKVAERRSSP LLRRKDGTVI STFKKRAVEI		
	TGAGPGASSV CNSAPGSGPS SPNSSHSTIA ENGFTGSVPN IPTEMLPQHR ALPLDSSPNQ		
	FSLYTSPSLP NISLGLQATV TVTNSHLTAS PKLSTQQEAE RQALQSLRQG GTLTGKFMST		
	SSIPGCLLGV ALEGDGSPHG HASLLQHVLL LEQARQQSTL IAVPLHGQSP LVTGERVATS		
	MRTVGKLPRH RPLSRTQSSP LPQSPQALQQ LVMQQQHQQF LEKQKQQQLQ LGKILTKTGE		
	LPRQPTTHPE ETEEELTEQQ EVLLGEGALT MPREGSTESE STQEDLEEED EEDDGEEEED		
	CIQVKDEEGE SGAEEGPDLE EPGAGYKKLF SDAQPLQPLQ VYQAPLSLAT VPHQALGRTQ		

SSPAAPGGMK SPPDQPVKHL FTTGVVYDTF MLKHQCMCGN THVHPEHAGR IQSIWSRLQE TGLLSKCERI RGRKATLDEI QTVHSEYHTL LYGTSPLNRQ KLDSKKLLGP ISQKMYAVLP CGGIGVDSDT VWNEMHSSSA VRMAVGCLLE LAFKVAAGEL KNGFAIIRPP GHHAEESTAM GFCFFNSVAI TAKLLQQKLN VGKVLIVDWD IHHGNGTQQA FYNDPSVLYI SLHRYDNGNF FPGSGAPEEV GGGPGVGYNV NVAWTGGVDP PIGDVEYLTA FRTVVMPIAH EFSPDVVLVS AGFDAVEGHL SPLGGYSVTA RCFGHLTRQL MTLAGGRVVL ALEGGHDLTA ICDASEACVS ALLSVELQPL DEAVLQQKPN INAVATLEKV IEIQSKHWSC VQKFAAGLGR SLREAQAGET EEAETVSAMA LLSVGAEQAQ AAAAREHSPR PAEEPMEQEP AL

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 in one-step affinity chromatography
- 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 try to ensure that you receive soluble 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 posttranslational 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 against its specific reference buffer. We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein. Purification: One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®). > 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC). Purity: Grade: custom-made **Target Details** HDAC5 Target: Alternative Name: HDAC5 (HDAC5 Products) Background: Histone deacetylase 5 (HD5) (EC 3.5.1.98) (Antigen NY-CO-9), FUNCTION: Responsible for the deacetylation of lysine residues on the N-terminal part of the core histones (H2A, H2B, H3 and H4). Histone deacetylation gives a tag for epigenetic repression and plays an important role in transcriptional regulation, cell cycle progression and developmental events. Histone deacetylases act via the formation of large multiprotein complexes. Involved in muscle maturation by repressing transcription of myocyte enhancer MEF2C. During muscle differentiation, it shuttles into the cytoplasm, allowing the expression of myocyte enhancer factors. Involved in the MTA1-mediated epigenetic regulation of ESR1 expression in breast cancer. Serves as a corepressor of RARA and causes its deacetylation (PubMed:28167758). In association with RARA, plays a role in the repression of microRNA-10a and thereby in the inflammatory response (PubMed:28167758). {ECO:0000269|PubMed:24413532, ECO:0000269|PubMed:28167758}. Molecular Weight: 122.0 kDa UniProt: 09U0L6 Pathways: Regulation of Muscle Cell Differentiation, Skeletal Muscle Fiber Development, Monocarboxylic

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

Acid Catabolic Process

Application Details

Handling Advice:

Storage Comment:

Storage:

Expiry Date:

Application Detail	S		
	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.		
	Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein.		

Avoid repeated freeze-thaw cycles.

-80 °C

Store at -80°C.

12 months