Datasheet for ABIN7554095

HDAC5 Protein (AA 1-1122) (His tag)

Go to Product page

Overview

Quantity:	1 mg
Target:	HDAC5
Protein Characteristics:	AA 1-1122
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This HDAC5 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat HDAC5 Protein expressed in mammalien cells.
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

Product Details

	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 Purification-Tag is based on experiences 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 to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalien cells and purified in one-step affinity chromatography • The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins. • 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. If you are not interested in a full length protein, please contact us for individual protein fragments. 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.
Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
Grade:	custom-made

Target Details

Target:	HDAC5
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

Target Details

	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:	Q9UQL6
Pathways:	Regulation of Muscle Cell Differentiation, Skeletal Muscle Fiber Development, Monocarboxylic Acid Catabolic Process

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.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition 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:	12 months