Datasheet for ABIN7564505

HDAC7 Protein (AA 1-938) (His tag)

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Overview

Quantity:	1 mg
Target:	HDAC7
Protein Characteristics:	AA 1-938
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This HDAC7 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat Hdac7 Protein expressed in mammalien cells.
Sequence:	MHSPGAGCPA LQPDTPGSQP QPMDLRVGQR PTVEPPPEPA LLTLQHPQRL HRHLFLAGLH QQQRSAEPMR LSMDPPMPEL QGGQQEQELR QLLNKDKSKR SAVASSVVKQ KLAEVILKKQ QAALERTVHP SSPSIPYRTL EPLDTEGAAR SVLSSFLPPV PSLPTEPPEH FPLRKTVSEP NLKLRYKPKK SLERRKNPLL RKESAPPSLR RRPAETLGDS SPSSSSTPAS GCSSPNDSEH GPNPALGSEA DGDRRTHSTL GPRGPVLGNP HAPLFLHHGL EPEAGGTLPS RLQPILLLDP SVSHAPLWTV PGLGPLPFHF AQPLLTTERL SGSGLHRPLN RTRSEPLPPS ATASPLLAPL QPRQDRLKPH VQLIKPAISP PQRPAKPSEK PRLRQIPSAE DLETDGGGVG PMANDGLEHR ESGRGPPEGR GSISLQQHQQ VPPWEQQHLA GRLSQGSPGD SVLIPLAQVG HRPLSRTQSS PAAPVSLLSP EPTCQTQVLN SSETPATGLV YDSVMLKHQC SCGDNSKHPE HAGRIQSIWS RLQERGLRSQ CECLRGRKAS LEELQSVHSE RHVLLYGTNP LSRLKLDNGK LTGLLAQRTF VMLPCGGVGV DTDTIWNELH SSNAARWAAG SVTDLAFKVA SRELKNGFAV VRPPGHHADH

Product Details

	STAMGFCFFN SVAIACRQLQ QHGKASKILI VDWDVHHGNG TQQTFYQDPS VLYISLHRHD DGNFFPGSGA VDEVGTGSGE GFNVNVAWAG GLDPPMGDPE YLAAFRIVVM PIAREFAPDL VLVSAGFDAA EGHPAPLGGY HVSAKCFGYM TQQLMNLAGG AVVLALEGGH DLTAICDASE ACVAALLGNK VDPLSEESWK QKPNLSAIRS LEAVVRVHRK YWGCMQRLAS CPDSWLPRVP GADAEVEAVT ALASLSVGIL AEDRPSERLV EEEEPMNL **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:	HDAC7
Alternative Name:	Hdac7 (HDAC7 Products)
Background:	Histone deacetylase 7 (HD7) (EC 3.5.1.98) (Histone deacetylase 7A) (HD7a),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

Target Details

	maturation by repressing transcription of myocyte enhancer factors such as MEF2A, MEF2B and MEF2C. During muscle differentiation, it shuttles into the cytoplasm, allowing the expression of myocyte enhancer factors. Positively regulates the transcriptional repressor activity of FOXP3 (By similarity). Serves as a corepressor of RARA, causing its deacetylation and inhibition of RARE DNA element binding (By similarity). In association with RARA, plays a role in the repression of microRNA-10a and thereby in the inflammatory response (By similarity). {ECO:0000250|UniProtKB:Q8WUI4, ECO:0000269|PubMed:10640276}.
Molecular Weight:	101.3 kDa
UniProt:	Q8C2B3
Pathways:	Regulation of Muscle Cell Differentiation, Cell-Cell Junction Organization, Skeletal Muscle Fiber Development

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