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Datasheet for ABIN3137466 HIC1 Protein (AA 1-733) (His tag)

Image



Overview

Quantity:	1 mg
Target:	HIC1
Protein Characteristics:	AA 1-733
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This HIC1 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:	MTFPEADILL KSGECAGQTM LDTMEAPGHS RQLLLQLNNQ RTKGFLCDVI IVVQNALFRA
	HKNVLAASSA YLKSLVVHDN LLNLDHDMVS PAVFRLVLDF IYTGRLTDSV EAAAAAAVAP
	GAEPSLGAVL AAASYLQIPD LVALCKKRLK RHGKYCHLRG GGSGGGGYAP YGRPGRGLRA
	ATPVIQACYS SPAGPPPPPA AEPPSGPDAA VNTHCAELYA SGPGPAASLC APERRCSPLC
	GLDLSKKSPP GSSVPERPLS ERELPPRPDS PPGAGPAVYK EPSLALPPLP PLPFQKLEEA
	VPTPDPFRGS GGSPGPEPPG RPDGSSLLYR WMKHEPGLGS YGDELVRDRG SPGERLEERG
	GDPAASPGGP PLGLVPPPRY PGSLDGPGTG ADGDDYKSSS EETGSSEDPS PPGGHLEGYP
	CPHLAYGEPE SFGDNLYVCI PCGKGFPSSE QLNAHVEAHV EEEEALYGRA EAAEVAAGAA
	GLGPPFGGGG DKVTGAPGGL GELLRPYRCA SCDKSYKDPA TLRQHEKTHW LTRPYPCTIC
	GKKFTQRGTM TRHMRSHLGL KPFACDACGM RFTRQYRLTE HMRIHSGEKP YECQVCGGKF
	AQQRNLISHM KMHAVGGAAG AAGALAGLGG LPGVPGPDGK GKLDFPEGVF AVARLTAEQL
	SLKQQDKAAA AELLAQTTHF LHDPKVALES LYPLAKFTAE LGLSPDKAAE VLSQGAHLAA

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	GPDSRTIDRF SPT
	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 Hic1 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:	HIC1
Alternative Name:	Hic1 (HIC1 Products)
Background:	Transcriptional repressor. Recognizes and binds to the consensus sequence '5-
	[CG]NG[CG]GGGCA[CA]CC-3'. May act as a tumor suppressor. May be involved in development
	of head, face, limbs and ventral body wall. Involved in down-regulation of SIRT1 and thereby is
	involved in regulation of p53/TP53-dependent apoptotic DNA-damage responses. The specific
	target gene promoter association seems to be depend on corepressors, such as CTBP1 or
	CTBP2 and MTA1. The regulation of SIRT1 transcription in response to nutrient deprivation
	seems to involve CTBP1. In cooperation with MTA1 (indicative for an association with the
	NuRD complex) represses transcription from CCND1/cyclin-D1 and CDKN1C/p57Kip2
	specifically in quiescent cells. Involved in regulation of the Wnt signaling pathway probably by
	association with TCF7L2 and preventing TCF7L2 and CTNNB1 association with promoters of
	TCF-responsive genes. Seems to repress transcription from E2F1 and ATOH1 which involves
	ARID1A, indicative for the participation of a distinct SWI/SNF-type chromatin-remodeling
	complex. Probably represses transcription from ACKR3, FGFBP1 and EFNA1.
	{ECO:0000269 PubMed:16269335, ECO:0000269 PubMed:18347096}.
Molecular Weight:	77.8 kDa Including tag.
UniProt:	Q9R1Y5
Pathways:	Positive Regulation of Response to DNA Damage Stimulus
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 gurantee though.
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
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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