Datasheet for ABIN7565196

# HIC1 Protein (AA 1-733) (His tag)

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## Overview

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| Quantity: | 1 mg |
| Target: | HIC1 |
| Protein Characteristics: | AA 1-733 |
| Origin: | Mouse |
| Source: | HEK-293 Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This HIC1 protein is labelled with His tag. |

## Product Details

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| Purpose: | Custom-made recombinant Hic1 Protein expressed in mammalian cells. |
| 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 |

## Product Details

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| | GPDSRTIDRF SPT **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.** |
| Specificity: | If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer. |
| Characteristics: | Key Benefits:<br>• Made to order protein - from design to production - by highly experienced protein experts.<br>• Protein expressed in mammalian cells and purified in one-step affinity chromatography<br>• The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.<br>• State-of-the-art algorithm used for plasmid design (Gene synthesis).<br><br>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.<br><br>If you are not interested in a full length protein, please contact us for individual protein fragments.<br><br>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, anti-tag ELISA, Western Blot and analytical SEC (HPLC) |
| Grade: | custom-made |

## Target Details

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| Target: | HIC1 |
| Alternative Name: | Hic1 (HIC1 Products) |
| Background: | Hypermethylated in cancer 1 protein (Hic-1),FUNCTION: Transcriptional repressor (PubMed:18347096). Recognizes and binds to the consensus sequence '5-[CG]NG[CG]GGGCA[CA]CC-3' (By similarity). May act as a tumor suppressor (PubMed:16269335, PubMed:18347096). Involved in development of head, face, limbs and ventral body wall (PubMed:10655551). Involved in down-regulation of SIRT1 and thereby is involved in regulation of p53/TP53-dependent apoptotic DNA-damage responses (PubMed:16269335). The specific target gene promoter association seems to be depend on corepressors, such as CTBP1 or CTBP2 and MTA1 (By similarity). In cooperation with MTA1 |

## Target Details

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| | (indicative for an association with the NuRD complex) represses transcription from CCND1/cyclin-D1 and CDKN1C/p57Kip2 specifically in quiescent cells (By similarity). 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 (By similarity). Seems to repress transcription from E2F1 and ATOH1 which involves ARID1A, indicative for the participation of a distinct SWI/SNF-type chromatin-remodeling complex (By similarity). Probably represses transcription from ACKR3, FGFBP1 and EFNA1 (By similarity). {ECO:0000250\|UniProtKB:Q14526, ECO:0000269\|PubMed:10655551, ECO:0000269\|PubMed:16269335, ECO:0000269\|PubMed:18347096}. |
| Molecular Weight: | 76.8 kDa |
| UniProt: | Q9R1Y5 |
| Pathways: | Positive Regulation of Response to DNA Damage Stimulus |

## Application Details

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| Application Notes: | We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though. |
| Restrictions: | For Research Use only |

## Handling

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| 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 |

 