

Datasheet for ABIN7555039
PRC1 Protein (AA 1-620) (His tag)



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Overview

Quantity:	1 mg
Target:	PRC1
Protein Characteristics:	AA 1-620
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PRC1 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant PRC1 Protein expressed in mammalian cells.
Sequence:	<p>MRRSEVLAEE SIVCLQKALN HLREIWELIG IPEDQRLQRT EVVKKHIKEL LDMMIAEEES LKERLIKSIS VCQKELNTLC SELHVEPFQE EGETTILQLE KDLRTQVELM RKQKKERKQE LKLLQEQQE LCEILCMPHY DIDSASVPSL EELNQFRQHV TTLRETKASR REEFVSIKRO IILCMEALDH TPDTSEFERDV VCEDEDAFCL SLENIATLQK LLRQLEMQKS QNEAVCEGLR TQIRELWDRL QIPEEEREAV ATIMSGSKAK VRKALQLEVD RLEELKMQNM KKVIEAIRVE LVQYWDQCFY SQEQRQAFAP FCAEDYTESL LQLHDAEIVR LKNYYEVHKE LFEGVQKWEE TWRLFLEFER KASDPNRFTN RGGNLLKEEK QRAKLQKMLP KLEELKARI ELWEQEHSKA FMVNGQKFME YVAEQWEMHR LEKERAKQER QLKNKKQTET EMLYGSAPRT PSKRRGLAPN TPGKARKLNT TTMSNATANS SIRPIFGGTV YHSPVSRLPP SGSKPVAAST CSGKKTPTTG RHGANKENLE LNGSILSGGY PGSAPLQRNF SINSVASTYS EFAKDPSLSD SSTVGLQREL SKASKSDATS GILNSTNIQS Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make</p>

Product Details

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:**

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian 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, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

Grade: custom-made

Target Details

Target: PRC1

Alternative Name: PRC1 ([PRC1 Products](#))

Background: Protein regulator of cytokinesis 1,FUNCTION: Key regulator of cytokinesis that cross-links antiparallel microtubules at an average distance of 35 nM. Essential for controlling the spatiotemporal formation of the midzone and successful cytokinesis. Required for KIF14 localization to the central spindle and midbody. Required to recruit PLK1 to the spindle. Stimulates PLK1 phosphorylation of RACGAP1 to allow recruitment of ECT2 to the central spindle. Acts as an oncogene for promoting bladder cancer cells proliferation, apoptosis inhibition and carcinogenic progression (PubMed:17409436).
{ECO:0000269|PubMed:12082078, ECO:0000269|PubMed:15297875,
ECO:0000269|PubMed:15625105, ECO:0000269|PubMed:16431929,
ECO:0000269|PubMed:17409436, ECO:0000269|PubMed:19468300,

Target Details

ECO:0000269|PubMed:20691902, ECO:0000269|PubMed:9885575}.

Molecular Weight: 71.6 kDa

UniProt: [O43663](#)

Application Details

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

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
