

Datasheet for ABIN755555
SMC6 Protein (AA 1-1091) (His tag)



[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	SMC6
Protein Characteristics:	AA 1-1091
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SMC6 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat SMC6 Protein expressed in mammalian cells.
Sequence:	MAKRKEENFS SPKNAKRPRQ EELEDFDKDG DEDECKGTTL TAAEVGIIES IHLKNFMCHS MLGPFKFGSN VNFVVGNGS GKSAVLTALI VLGGRAVAT NRGSSLKGFV KDGQNSADIS ITLRNRGDDA FKASVYNSI LIQQHISIDG SRSYKLKSAT GSVVSTRKEE LIAILDHFNI QVDNPVSVLT QEMSKQFLQS KNEGDKYKFF MKATQLEQMK EDYSYIMETK ERTKEQIHQG EERLTELRQ CVEKEERFQS IAGLSTMKTN LESLKHEMAW AVVNEIEKQL NAIRDNIKIG EDRAARLDRK MEEQQVRLNE AEQKYKDIQD KLEKISEETN ARAPECMALK ADVVAKKRAY NEAEVLYNRS LNEYKALKKD DEQLCKRIEE LKKSTDQSLE PERLERQKKI SWLKERVKAF QNGENSVNQE IEQFQQAIEK DKEEHGKIKR EELDVKHALS YNQRQLKELK DSKTDRLKRF GPNVPALLEA IDDAYRQGHF TYKPVGPLGA CIHLRDPOLA LAIESCLKGL LQAYCCHNHA DERVLQALMK RFYLPGTSRP PIIVSEFRNE IYDVRHRAAY HPDFPTVLT LAIDNAVVAN SLIDMRGIET VLLIKNNSVA RAVMQSQKPP KNCREAFTAD GDQVFAGRIY SSENTRPKFL

SRDVDSEISD LENEVENKTA QILNLQQHLS ALEKDIKHNE ELLKRCQLHY KELKMKIRKN
ISEIRELENI EEHQSVDIAT LEDEAQENKS KMKMVVEEHME QQKENMEHLK SLKIEAENKY
DAIKFKINQL SELADPLKDE LNLADSEVDN QKRGKRHYEE KQKEHLDTLN KKKRELDMKE
KELEEKMSQA RQICPERIEV EKSASILDKE INRLRQKIQA EHASHGDREE IMRQYQEAARE
TYLDLDSKVR TLKKFIKLLG EIMEHRFKTY QQFRRCLTLR CKLYFDNLLS QRAYCGKMNF
DHKNETLSIS VQPGEGNKAA FNDMRALSGG ERSFSTVCFI LSLWSIAESP FRCLDEFDVY
MDMVNRRIAM DLILKMADSQ RFRQFILLTP QSMSSLPSSK LIRILRMSDP ERGQTTLPRF
PVTQEEDDDQ R **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 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, Western Blot

Grade:

custom-made

Target Details

Target:

SMC6

Alternative Name:

SMC6 ([SMC6 Products](#))

Background:

Structural maintenance of chromosomes protein 6 (SMC protein 6) (SMC-6)
(hSMC6),FUNCTION: Core component of the SMC5-SMC6 complex, a complex involved in DNA double-strand breaks by homologous recombination. The complex may promote sister

Target Details

chromatid homologous recombination by recruiting the SMC1-SMC3 cohesin complex to double-strand breaks. The complex is required for telomere maintenance via recombination in ALT (alternative lengthening of telomeres) cell lines and mediates sumoylation of shelterin complex (telosome) components which is proposed to lead to shelterin complex disassembly in ALT-associated PML bodies (APBs). Required for recruitment of telomeres to PML nuclear bodies. SMC5-SMC6 complex may prevent transcription of episomal DNA, such as circular viral DNA genome (PubMed:26983541). {ECO:0000269|PubMed:16810316, ECO:0000269|PubMed:17589526, ECO:0000269|PubMed:26983541}.

Molecular Weight: 126.3 kDa

UniProt: [Q96SB8](#)

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