

Recombinant Human SMC1A protein, His-tagged

Cat. No. SMC1A-2907H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human SMC1A protein(685-1034 aa), fused to His tag, was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	685-1034 aa
Form	The purified protein was Lyophilized from sterile PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH7.4). 5 % trehalose and 5 % mannitol are added as protectant before lyophilization. The elution buffer contain 300mM imidazole.
AA Sequence	LKEQMKAKRKEAELRQVQSQAHLQMLKYSQSDLEQTKTRHLALNLQEKSKLESE LANFGPRINDIKRIIQSREREMKDLKEKMNQVEDEVFEEFCREIGVRNIREFEEEEKVK RQNEIAKKRLEFENQKTRLGIQLDFEKNQLKEDQDKVHMWEQTVKKDENEIEKLLKE EQRHMKIIDETMAQLQDLKNQHLAKKSEVNDKNHEMEEIRKKLGGANKEMTHLQKE VTAIETKLEQKRSDRHNLQACKMQDIKPLPSKGTMDDISQEEGSSQGEDSVSGSQ RISSIYAREALIEIDYGDLCEDLKDAQAEIEIKQEMNTLQQKLNEQQSVLQRIAAPNM KAMEKLESV
Purity	95%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Storage	Short-term storage: Store at 2-8°C for (1-2 weeks). Long-term storage: Aliquot and store at -20°C to -80°C for up to 3 months, buffer

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containing 50% glycerol is recommended for reconstitution. Avoid repeat freeze-thaw cycles.

Reconstitution

Reconstitute at 0.25 $\mu\text{g}/\mu\text{l}$ in 200 μl sterile water for short-term storage.
Reconstitution with 200 μl 50% glycerol solution is recommended for longer term storage.

GENE INFORMATION

Gene Name [SMC1A structural maintenance of chromosomes 1A \[Homo sapiens \]](#)

Official Symbol [SMC1A](#)

Synonyms

SMC1A; structural maintenance of chromosomes 1A; SMC1 (structural maintenance of chromosomes 1, yeast) like 1 , SMC1 structural maintenance of chromosomes 1 like 1 (yeast) , SMC1L1; structural maintenance of chromosomes protein 1A; DXS423E; KIAA0178; SB1.8; Smcb; SMC-1A; SMC-1-alpha; SMC protein 1A; segregation of mitotic chromosomes 1; SMC1 structural maintenance of chromosomes 1-like 1; SMC1 (structural maintenance of chromosomes 1, yeast)-like 1; SMC1; SMCB; CDLS2; SMC1L1; SMC1alpha; MGC138332; DKFZp686L19178;

Gene ID [8243](#)

mRNA Refseq [NM_006306](#)

Protein Refseq [NP_006297](#)

MIM [300040](#)

UniProt ID [Q14683](#)

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