# Recombinant Human SMC3 protein, His & T7-tagged

**Cat. No.** SMC3-1541H **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Recombinant Human SMC3 aa. (Ser994~Glu1181 (Accession # Q9UQE7)) fused with N-terminal His & T7 tag was produced in E. coli cells. |
| **Species** | Human |
| **Source** | E.coli |
| **ProteinLength** | Ser994~Glu1181 |
| **Description** | This gene belongs to the SMC3 subfamily of SMC proteins. The encoded protein occurs in certain cell types as either an intracellular, nuclear protein or a secreted protein. The nuclear form, known as structural maintenance of chromosomes 3, is a component of the multimeric cohesin complex that holds together sister chromatids during mitosis, enabling proper chromosome segregation. Post-translational modification of the encoded protein by the addition of chondroitin sulfate chains gives rise to the secreted proteoglycan bamacan, an abundant basement membrane protein. |
| **Form** | Freeze-dried powder |
| **Molecular Mass** | Predicted Molecular Mass: 24.8kDa. |
| **Endotoxin** | <1.0EU per 1μg (determined by the LAL method). |
| **Purity** | >95% |

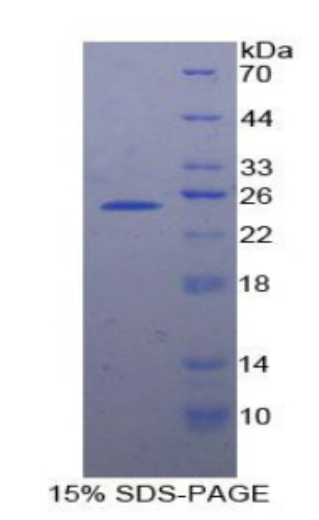
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| **Characteristic** | The isoelectric point is 6.1. |
| **Applications** | SDS-PAGE; WB; ELISA; IP. |
| **Stability** | The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition. |
| **Storage** | Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months. |
| **Storage buffer** | Supplied as lyophilized form in PBS, pH7.4, containing 5% sucrose, 0.01% sarcosyl. |
| **Reconstitution** | Reconstitute in sterile PBS, pH7.2-pH7.4. |

## GENE INFORMATION

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| **Gene Name** | SMC3 structural maintenance of chromosomes 3 [ Homo sapiens (human) ] |
| **Official Symbol** | SMC3 |
| **Synonyms** | BAM; BMH; HCAP; CDLS3; CSPG6; SMC3L1; SMC protein 3; basement membrane-associated chondroitin proteoglycan; chondroitin sulfate proteoglycan 6 (bamacan); chromosome-associated polypeptide; structural maintenance of chromosomes protein 3 |
| **Gene ID** | 9126 |
| **mRNA Refseq** | NM_005445.3 |

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| **Protein Refseq** | NP_005436.1 |
| **UniProt ID** | Q9UQE7 |
| **SDS-PAGE** |  |



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