

Recombinant Human SMC3 protein, His & T7-tagged

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

SPECIFICATION

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 1g (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

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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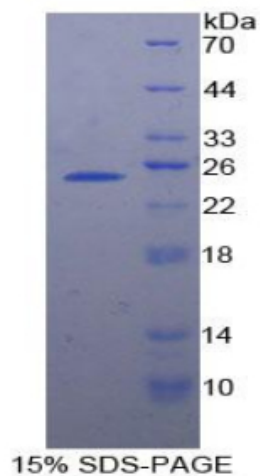
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Protein Refseq NP_005436.1

UniProt ID Q9UQE7

SDS-PAGE



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