

Recombinant Human SMC3, His-tagged

Cat. No. SMC3-31196TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 233-736 of Human SMC3 with a N terminal His tag; predicted MWt 60 kDa:
Species	Human
Source	E.coli
ProteinLength	233-736 a.a.
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.
Conjugation	HIS
Form	Lyophilised:Reconstitution with 118 µl aqua dest.
Storage buffer	Preservative: NoneConstituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5

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Storage	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	NETRAKLDELSAKRETSGEKSRQLRDAQQDARDKMEDIER QVRELKTKISAMKEEK EQLSAERQEIQIKQRTKLELKAK DLQDELAGNSEQRKRLKERQKLEKIEEKQKELA ETE PKFNSVKEKEERGIAQLAQATQERTDLYAKQGRGSQFTSK EERDKWIKKELKS LDQAINDKKRQIAAIHKDLEDTEAN KEKNLEQYNKLDQDLNEVKARVEELDRKYEV KNKKDE LQSERNYLWREENAEQQALAAKREDLEKKQQLLRAATG KAILNGIDSINK VLDHFRRKGINQHVGNGYHGIVMNNFEC EPAFYTCVEVTAGNRLFYHIVDSDEVST KILMEFNKMN LPGEVTFLPLNKLDVRDTAYPETNDAIPMISKLRYNPR FDKAFKHVF GKTLICRSMEVSTQLARAFTMDCITLEGDQVSHRGALTGGYYDTRKSRLELQKDVR KAEELGELEAKL NENLRRNIERINNEIDQLMNQMQQIETQQRKFKASRDS IL
Sequence Similarities	Belongs to the SMC family. SMC3 subfamily.
GENE INFORMATION	
Gene Name	SMC3 structural maintenance of chromosomes 3 [Homo sapiens]
Official Symbol	SMC3
Synonyms	SMC3; structural maintenance of chromosomes 3; chondroitin sulfate proteoglycan 6 (bamacan) , CSPG6; structural maintenance of chromosomes protein 3; BAM; bamacan; bamacan proteoglycan; HCAP; SMC3L1;
Gene ID	9126
mRNA Refseq	NM_005445
Protein Refseq	NP_005436

MIM	606062
Uniprot ID	Q9UQE7
Chromosome Location	10q25
Pathway	Cell Cycle, Mitotic, organism-specific biosystem; Cell cycle, organism-specific biosystem; Cell cycle, conserved biosystem; DNA Replication, organism-specific biosystem; M Phase, organism-specific biosystem;
Function	ATP binding; dynein binding; microtubule motor activity; nucleotide binding; protein binding;

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