

Recombinant Human SMC3, GST-tagged

Cat. No. SMC3-20H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human SMC3(711 a.a. - 810 a.a.), fused with GST-tag at N-terminal, was expressed in wheat germ.
Species	Human
Source	Wheat Germ
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.
Molecular Mass	36.63 kDa
AA Sequence	IDQLMNQMQQIETQQRKFKASRDSILSEMKMLKEKRQQSEKTFMPKQRSLSLEAS LHAMESTRESLKAELGTDL LSQLSLEDQKRVDALNDEIRQLQQE
Applications	ELISA; WB-Re; AP; Array
Notes	Best use within three months from the date of receipt of this protein.

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Storage	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
GENE INFORMATION	
Gene Name	SMC3 structural maintenance of chromosomes 3 [Homo sapiens (human)]
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; SMC-3; SMC protein 3; chromosome-associated polypeptide; chondroitin sulfate proteoglycan 6 (bamacan); basement membrane-associated chondroitin proteoglycan; BMH; CDLS3; CSPG6
Gene ID	9126
mRNA Refseq	NM_005445
Protein Refseq	NP_005436
MIM	606062
UniProt ID	Q9UQE7
Chromosome Location	10q25
Pathway	Cohesin Loading onto Chromatin; Establishment of Sister Chromatid Cohesion; Mitotic Prometaphase; Oocyte meiosis

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Function

ATP binding; chromatin binding; mediator complex binding

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