

Recombinant Human CAST, GST-tagged

Cat. No. CAST-10743H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CAST protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	N-term-350a.a.
Description	Centromere and kinetochore proteins play a critical role in centromere structure, kinetochore formation, and sister chromatid separation. The protein encoded by this gene colocalizes with inner kinetochore plate proteins CENP-A and CENP-C in both interphase and metaphase. It localizes outside of centromeric heterochromatin, where CENP-B is localized, and inside the kinetochore corona, where CENP-E is localized during prometaphase. It is thought that this protein can bind to itself, as well as to CENP-A, CENP-B or CENP-C. Multimers of the protein localize constitutively to the inner kinetochore plate and play an important role in the organization and function of the active centromere-kinetochore complex.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

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GENE INFORMATION

Gene Name	CAST calpastatin [Homo sapiens]
Official Symbol	CAST
Synonyms	CAST; calpastatin; calpain inhibitor; sperm BS-17 component; BS-17; MGC9402;
Gene ID	831
mRNA Refseq	NM_001042440
Protein Refseq	NP_001035905
MIM	114090
UniProt ID	P20810
Chromosome Location	5q14-q22
Function	calcium-dependent cysteine-type endopeptidase inhibitor activity; endopeptidase inhibitor activity; protein binding;

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