

Recombinant Human DMC1, GST-tagged

Cat. No. DMC1-12035H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human DMC1 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	1-165a.a.
Description	The protein encoded by this gene is essential for meiotic homologous recombination. Genetic recombination in meiosis plays an important role in generating diversity of genetic information. The product of this gene is structurally and evolutionary related to the products of the yeast RAD51 and E. coli RecA genes. Alternative splice variants of this gene have been described but their full-length nature has not been determined.
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.

GENE INFORMATION

Gene Name	DMC1 DMC1 dosage suppressor of mck1 homolog, meiosis-specific homologous recombination (yeast) [Homo sapiens]
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Official Symbol	DMC1
Synonyms	DMC1; DMC1 dosage suppressor of mck1 homolog, meiosis-specific homologous recombination (yeast); DMC1 (dosage suppressor of mck1, yeast homolog) meiosis specific homologous recombination; meiotic recombination protein DMC1/LIM15 homolog; LIM15; DMC1 homologue; disrupted meiotic cDNA1, yeast, homolog of; DMC1H; HsLim15; dJ199H16.1; MGC150472; MGC150473;
Gene ID	11144
mRNA Refseq	NM_007068
Protein Refseq	NP_008999
MIM	602721
UniProt ID	Q14565
Chromosome Location	22q13.1
Pathway	Meiosis, organism-specific biosystem; Meiotic Recombination, organism-specific biosystem; Ovarian Infertility Genes, organism-specific biosystem;
Function	ATP binding; DNA binding; DNA-dependent ATPase activity; nucleoside-triphosphatase activity; nucleotide binding; protein binding;