

Recombinant Mouse Dmc1 Protein, Myc/DDK-tagged

Cat. No. Dmc1-2583M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length DNA meiotic recombinase 1 (Dmc1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	This gene encodes a member of the superfamily of recombinases (also called DNA strand-exchange proteins). Recombinases are important for repairing double-strand DNA breaks during mitosis and meiosis. This protein, which is evolutionarily conserved, is reported to be essential for meiotic homologous recombination and may thus play an important role in generating diversity of genetic information. In mouse, deficiency of this gene causes infertility. Alternative splicing results in multiple transcript variants.
Molecular Mass	37.8 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Storage Buffer 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name Dmc1 DNA meiotic recombinase 1 [*Mus musculus* (house mouse)]

Official Symbol Dmc1

Synonyms DMC1; DMC1 dosage suppressor of mck1 homolog, meiosis-specific homologous recombination (yeast); meiotic recombination protein DMC1/LIM15 homolog; disrupted meiotic cDNA 1 homolog; sgdp; Dmc1h; Mei11; MGC151144

Gene ID 13404

mRNA Refseq NM_010059

Protein Refseq NP_034189

UniProt ID Q61880

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