

Recombinant Human DMC1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. DMC1-4107H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	DMC1 MS Standard C13 and N15-labeled recombinant protein (NP_008999) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
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. Alternative splicing results in multiple transcript variants.
Molecular Mass	37.7 kDa
AA Sequence	MKEDQVVAEEPGFQDEEESLFQDIDLLQKHGINVADIKKLKSVGICTIKGIQMTTRRA LCNVKGLSEAKVDKIKEAANKLIEPGFLTAFEYSEKRKMVFHITTGSQEFDKLLGGGI ESMAITEAFGEFRTGKTQLSHTLCVTAQLPGAGGYPGGKIIFIDENTFRPDRLRDIA DRFNVDHDAVLNDNLVYARAYTSEHQMELLDYVAAKFHEEAGIFKLLIIDSIMALFRVD FSGRGELAERQQKLAQMLSRKQKISEEYNVAVFVTNQMTADPGATMTFQADPKKPI GGHILAHASTTRISLRKGRGELRIAKIYDSEMPENEATFAITAGGIGDAKETRTRPLE QKLISEEDLAANDILDYKDDDDKV

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Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	DMC1 DNA meiotic recombinase 1 [Homo sapiens (human)]
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

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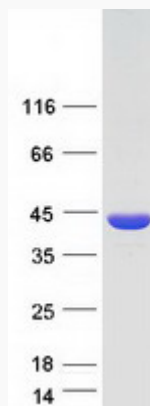
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UniProt ID

Q14565

SDS-PAGE

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