DNA Topoisomerase 2-Beta (TOP2B) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	DNA topoisomerase 2-beta (Top2b), Recombinant Protein
Full Product Name	Recombinant Mouse DNA topoisomerase 2-beta (Top2b) , partial
Product Gene Name	Top2b recombinant protein
Product Synonym Gene Name	Top2b
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	181,909 Da
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q64511
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Top2b recombinant protein	This gene encodes a DNA topoisomerase, an enzyme that controls and alters the topologic states of DNA during transcription. This nuclear enzyme is involved in processes such as chromosome condensation, chromatid separation, and the relief of torsional stress that occurs during DNA transcription and replication. It catalyzes the transient breaking and rejoining of two strands of duplex DNA which allows the strands to pass through one another, thus altering the topology of DNA. Two forms of this enzyme exist as likely products of a gene duplication event. The gene encoding this form, beta, is localized to chromosome 3 and the alpha form is localized to chromosome 17. The gene encoding this enzyme functions as the target for several anticancer agents and a variety of mutations in this gene have been associated with the development of drug resistance. Reduced activity of this enzyme may also play a role in ataxia-telangiectasia. Alternative splicing of this gene results in two transcript variants; however, the second variant has not yet been fully described.
Other Notes	Small volumes of Top2b recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for Top2b purchase	MBS1311991 is a recombinant protein targeting Top2b. Also known as Recombinant Mouse DNA topoisomerase 2-beta (Top2b) , partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Top2b. It may not necessarily be applicable to this product.

NCBI GI #	34328148
NCBI GeneID	21974
NCBI Accession #	NP_033435.2

UniProt Primary Accession #	Q64511
UniProt Secondary Accession #	Q7TQG4
UniProt Related Accession #	Q64511
GenBank Nucleotide #	NM_009409.2
NCBI Official Full Name	DNA topoisomerase 2-beta
NCBI Official Synonym Full Names	topoisomerase (DNA) II beta
NCBI Official Symbol	Top2b
NCBI Official Synonym Symbols	Top-2; D230016L12Rik
UniProt Protein Name	DNA topoisomerase 2-beta
UniProt Synonym Protein Names	DNA topoisomerase II, beta isozyme
Protein Family	DNA topoisomerase
UniProt Gene Name	Top2b
NCBI Protein Information	DNA topoisomerase 2-beta
UniProt Comments for Top2b	Control of topological states of DNA by transient breakage and subsequent rejoining of DNA strands. Topoisomerase II makes double-strand breaks.
Research Articles on Top2b	**1.** We demonstrated that Nup98-TopIIbeta and Nup98-SETBP1 negatively regulate the XPO1-mediated protein export. Our results will contribute to the understanding of the molecular mechanism by which the Nup98-fusion proteins induce tumorigenesis.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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