

Datasheet for ABIN7565309  
**TOP3B Protein (AA 1-862) (His tag)**



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## Overview

Quantity:	1 mg
Target:	TOP3B
Protein Characteristics:	AA 1-862
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TOP3B protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant Top3b Protein expressed in mammalian cells.
Sequence:	MKTVLMVAEK PSLAQSIKI LSRGNMSSHK GLNGACSVHK YTGTFAGQPV HFKMTSVCGH VMTLDFLGKY NKWDKVDPAE LFSQAPTEKK EANPKLNMVK FLQVEGRGCD YVWLWLDCKD EGENICFEVL DAVLPVMNNA HNGEKTVFRA RFSSITDDTDI CNAMTRLSEP DHNEALSUDA RQELDLRIGC AFTRFQTKYF QGKYGDLSS LISFGPCQTP TLGFCVERHD KIQSFKPETY WVLQAKVHTD KEESLLLDWD RVRVFDWEIA QMFLNMTKLE KEAWVEATSR KEKAKQRPLA LNTVEMLRVA SSALGMGPQH AMQIAERLYT QGYISYPRTE TTHYPENFDL KGSLRQQANH PYWADSVKQL LAEGINRPRK GHDAGDHPPi TPMKSATEAE LGGDAWRLYE YITRHFIAIV SHDCKYLQST ISFRIGPEHF TCMGKTIVISP GFTEIMPWQS VPLEESLPTC QKGDFTTVGE VKMLEKQTSP PDYLTEAELI TLMEKHGIGT DASIPVHINN ICQRNYVTVE SGRRLKPTNL GIVLVHGYK IDAELVLPTI RSAVEKQLNL IAQKADYHQ VLGHTLDIFK RKFHYFVDSI AGMDELMEVS FSPLAATGKP LSRCGKCHRF MKYIQAKPSR LHCSHCDETY TLPQNGTIKL YKELRCPLDD FELVLWSSGS RGKSYPLCPY CYNHPPFRDM KKGMGCONNECT HPTCQHSLSM

## Product Details

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LGIGQCVECE NGVLVLDPTS GPKWKVACNT CNVVAHCFEN AHRVRVSADT CNTCEALLD  
VDFNKAKSPL PGNETQHTGC IFCDPVFQEL VELKHAASCH PMHRGGPGRR QGRGRGRGRRR  
PPGKPNRRP KDKMSALAAAY FV **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**

Specificity: If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

Characteristics: Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity: > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

Grade: custom-made

## Target Details

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Target: TOP3B

Alternative Name: Top3b ([TOP3B Products](#))

Background: DNA topoisomerase 3-beta-1 (EC 5.6.2.1) (DNA topoisomerase III beta-1),FUNCTION: Releases the supercoiling and torsional tension of DNA introduced during the DNA replication and transcription by transiently cleaving and rejoining one strand of the DNA duplex. Introduces a single-strand break via transesterification at a target site in duplex DNA. The scissile phosphodiester is attacked by the catalytic tyrosine of the enzyme, resulting in the formation of a DNA-(5'-phosphotyrosyl)-enzyme intermediate and the expulsion of a 3'-OH DNA strand. The

## Target Details

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free DNA strand than undergoes passage around the unbroken strand thus removing DNA supercoils. Finally, in the religation step, the DNA 3'-OH attacks the covalent intermediate to expel the active-site tyrosine and restore the DNA phosphodiester backbone (By similarity). Possesses negatively supercoiled DNA relaxing activity. {ECO:0000250}.

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Molecular Weight: 96.9 kDa

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UniProt: [Q9Z321](#)

## Application Details

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Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

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Restrictions: For Research Use only

## Handling

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Format: Liquid

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Buffer: The buffer composition is at the discretion of the manufacturer.

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Handling Advice: Avoid repeated freeze-thaw cycles.

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: 12 months