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TOP3B Protein (AA 1-862) (His tag)



Image



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Overview

Quantity:	1 mg
Target:	TOP3B
Protein Characteristics:	AA 1-862
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TOP3B protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:

MKTVLMVAEK PSLAQSIAKI LSRGNMSSHK GLNGACSVHK YTGTFAGQPV HFKMTSVCGH VMTLDFLGKY NKWDKVDPAE LFSQAPTEKK EANPKLNMVK FLQVEGRGCD YVVLWLDCDK EGENICFEVL DAVLPVMNNA HNGEKTVFRA RFSSITDTDI CNAMTRLSEP DHNEALSVDA RQELDLRIGC AFTRFQTKYF QGKYGDLDSS LISFGPCQTP TLGFCVERHD KIQSFKPETY WVLQAKVHTD KEESLLLDWD RVRVFDWEIA QMFLNMTKLE KEAWVEATSR KEKAKQRPLA LNTVEMLRVA SSALGMGPQH AMQIAERLYT QGYISYPRTE TTHYPENFDL KGSLRQQANH PYWADSVKQL LAEGINRPRK GHDAGDHPPI TPMKSATEAE LGGDAWRLYE YITRHFIATV SHDCKYLQST ISFRIGPEHF TCMGKTVISP GFTEIMPWQS VPLEESLPTC QKGDTFTVGE VKMLEKQTSP PDYLTEAELI TLMEKHGIGT DASIPVHINN ICQRNYVTVE SGRRLKPTNL GIVLVHGYYK IDAELVLPTI RSAVEKQLNL IAQGKADYHQ VLGHTLDIFK RKFHYFVDSI AGMDELMEVS FSPLAATGKP LSRCGKCHRF MKYIQAKPSR LHCSHCDETY TLPQNGTIKL YKELRCPLDD FELVLWSSGS RGKSYPLCPY CYNHPPFRDM KKGMGCNECT HPTCQHSLSM

LGIGQCVECE NGVLVLDPTS GPKWKVACNT CNVVAHCFEN AHRVRVSADT CNTCEAALLD VDFNKAKSPL PGNETQHTGC IFCDPVFQEL VELKHAASCH PMHRGGPGRR QGRGRGRGRR PPGKPNPRRP KDKMSALAAY FV

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.

Characteristics:

- Made in Germany from design to production by highly experienced protein experts.
- Mouse Top3b Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
- 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 will ensure that you receive a correctly folded protein.

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.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receival of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

The concentration of our recombinant proteins is measured using the absorbance at 280nm.

The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

Purification:

Two step purification of proteins expressed in baculovirus infected SF9 insect cells:

- 1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.
- Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.

Purity:

>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Sterility:

0.22 µm filtered

Product Details	
Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade
Target Details	
Target:	TOP3B
Alternative Name:	Top3b (TOP3B Products)
Background:	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 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}.
Molecular Weight:	97.9 kDa Including tag.
UniProt:	Q9Z321
Application Details	
Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a gurantee though.
Comment:	Protein has not been tested for activity yet. In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.
Restrictions:	For Research Use only
Handling	
Format:	Liquid
5 "	

100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.

Buffer:

Handling

Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Images

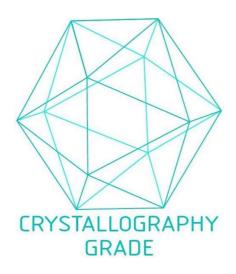


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process