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Topoisomerase II alpha Protein (AA 1-1528) (His tag)





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Overview

Quantity:	1 mg
Target:	Topoisomerase II alpha (TOP2A)
Protein Characteristics:	AA 1-1528
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Topoisomerase II alpha protein is labelled with His tag.
Application:	Western Blotting (WB), ELISA, Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:

MELSPLQPVN ENMLMNKKKN EDGKKRLSIE RIYQKKTQLE HILLRPDTYI GSVELVTQQM
WVYDEDVGIN YREVTFVPGL YKIFDEILVN AADNKQRDPK MSCIRVTIDP ENNVISIWNN
GKGIPVVEHK VEKIYVPALI FGQLLTSSNY DDDEKKVTGG RNGYGAKLCN IFSTKFTVET
ASREYKKMFK QTWMDNMGRA GDMELKPFSG EDYTCITFQP DLSKFKMQSL DKDIVALMVR
RAYDIAGSTK DVKVFLNGNS LPVKGFRSYV DLYLKDKVDE TGNSLKVIHE QVNPRWEVCL
TMSERGFQQI SFVNSIATSK GGRHVDYVAD QIVSKLVDVV KKKNKGGVAV KAHQVKNHMW
IFVNALIENP TFDSQTKENM TLQAKSFGST CQLSEKFIKA AIGCGIVESI LNWVKFKAQI
QLNKKCSAVK HTKIKGIPKL DDANDAGSRN STECTLILTE GDSAKTLAVS GLGVVGRDKY
GVFPLRGKIL NVREASHKQI MENAEINNII KIVGLQYKKN YEDEDSLKTL RYGKIMIMTD
QDQDGSHIKG LLINFIHHNW PSLLRHRFLE EFITPIVKVS KNKQEIAFYS LPEFEEWKSS
TPNHKKWKVK YYKGLGTSTS KEAKEYFADM KRHRIQFKYS GPEDDAAISL AFSKKQVDDR
KEWLTNFMED RRQRKLLGLP EDYLYGQSTS YLTYNDFINK ELILFSNSDN ERSIPSMVDG

LKPGQRKVLF TCFKRNDKRE VKVAQLAGSV AEMSSYHHGE MSLMMTIINL AQNFVGSNNL NLLQPIGQFG TRLHGGKDSA SPRYIFTMLS PLARLLFPPK DDHTLRFLYD DNQRVEPEWY IPIIPMVLIN GAEGIGTGWS CKIPNFDVRE VVNNIRRLLD GEEPLPMLPS YKNFKGTIEE LASNQYVING EVAILDSTTI EISELPIRTW TQTYKEQVLE PMLNGTEKTP SLITDYREYH TDTTVKFVIK MTEEKLAEAE RVGLHKVFKL QSSLTCNSMV LFDHVGCLKK YDTVLDILRD FFELRLKYYG LRKEWLLGML GAESSKLNNQ ARFILEKIDG KIVIENKPKK ELIKVLIQRG YDSDPVKAWK EAQQKVPDEE ENEESDTETS TSDSAAEAGP TFNYLLDMPL WYLTKEKKDE LCKQRNEKEQ ELNTLKQKSP SDLWKEDLAV FIEELEVVEA KEKQDEQVGL PGKAGKAKGK KAQMCADVLP SPRGKRVIPQ VTVEMKAEAE KKIRKKIKSE NVEGTPAEDG AEPGSLRQRI EKKQKKEPGA KKQTTLPFKP VKKGRKKNPW SDSESDVSSN ESNVDVPPRQ KEQRSAAAKA KFTVDLDSDE DFSGLDEKDE DEDFLPLDAT PPKAKIPPKN TKKALKTQGS SMSVVDLESD VKDSVPASPG VPAADFPAET EQSKPSKKTV GVKKTATKSQ SSVSTAGTKK RAAPKGTKSD SALSARVSEK PAPAKAKNSR KRKPSSSDSS DSDFERAISK GATSKKAKGE EQDFPVDLED TIAPRAKSDR ARKPIKYLEE SDDDDDLF

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 Top2a 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.

Product Details

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.
Two step purification of proteins expressed in baculovirus infected SF9 insect cells:
 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.
>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
0.22 μm filtered
Protein is endotoxin free.
Crystallography grade
Topoisomerase II alpha (TOP2A)
Top2a (TOP2A Products)
Control of topological states of DNA by transient breakage and subsequent rejoining of DNA
strands. Topoisomerase II makes double-strand breaks. Essential during mitosis and meiosis
for proper segregation of daughter chromosomes. May play a role in regulating the period
length of ARNTL/BMAL1 transcriptional oscillation (PubMed:24321095).
{ECO:0000269 PubMed:1331984, ECO:0000269 PubMed:24321095}.
173.7 kDa Including tag.
Q01320
Cell Division Cycle, Mitotic G1-G1/S Phases
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.
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

Application Details

	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
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Images

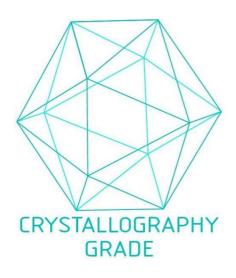


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process