

Datasheet for ABIN7563577

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



[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	Topoisomerase II alpha (TOP2A)
Protein Characteristics:	AA 1-1528
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Topoisomerase II alpha protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Top2a Protein expressed in mammalian cells.
Sequence:	MELSPLQPVN ENMLMNKKKN EDGKKRLSIE RIYQKKTQLE HILLRPDTYI GSVELVTQQM WVYDEDVGIN YREVTVPGL YKIFDEILVN AADNKQRDPK MSCIRVTIDP ENNVISIWNN GKGIPVVEHK VEKIYVPALI FGQLLTSSNY DDDEKKVTGG RNGYGAKLCN IFSTKFTVET ASREYKKMFK QTWMDNMGRA GDMELKPFSG EDYTCITFQP DLSKFQMQL DKDIVALMVR RAYDIAGSTK DVKVFLNGNS LPVKGFRSYV DLYLKDKVDE TGNSLKVIHE QVNPRWEVCL TMSERGFQQI SFVNSIATSK GGRHVDYVAD QIVSKLVDV KKKNKGGVAV KAHQVKNHMW IFVNALIENP TFDSQTKENM TLQAKSFGST CQLSEKFIKA AIGCGIVESI LNWKFKAQI QLNKKCSAVK HTKIKGIPKL DDANDAGSRN STECTLILTE GDSAKTLAVS GLGVVGRDKY GVFPLRGKIL NVREASHKQI MENAEINNII KIVGLQYKKN YEDEDLTKL RYKIMIMTD QDQDGSIIKG LLINFIHHNW PSLLRHRFLE EFITPIVKVS KNKQEIAFYS LPEFEEWKSS TPNHKKWKVK YYKGLGTSTS KEAKEYFADM KRHRIQFKYS GPEDDAAISL AFSKKQVDDR KEWLTFNMED RRQRKLLGLP EDYLYGQSTS YLTYNDFINK ELILFSNSDN ERSIPSMVDG

LKPGQRKVLV TCFKRNDKRE VKVAQLAGSV AEMSSYHHGE MSLMMTIINL AQNFVGSNNL
NLLQPIGQFG TRLHGGKDSA SPRYIFTMLS PLARLLFPPK DDHTLRFLYD DNQRVEPEWY
IPIIPMLIN GAEGIGTGWS CKIPNFDVRE VVNNIRRLD GEEPLPMLPS YKNFKGTIEE
LASNQYVING EVAILDSTTI EISELPIRTW TQTYKEQVLE PMLNGTEKTP SLITDYREYH
TDTTVKFVIK MTEEKLAEE RVGLHKVFKL QSSLTCNSMV LFDHVGCLKK YDTVLDILRD
FFELRLKYYG LRKEWLLGML GAESSKLNNQ ARFILEKIDG KIVIENKPKK ELIKVLIQRG
YSDSPVKAWK EAQQKVPDEE ENEESDTETS TSDSAAEAGP TFNYLLDMPL WYLTKEKKDE
LCKQRNEKEQ ELNTLKQKSP SDLWKEDLAV FIEELEVVEA KEKQDEQVGL PGKAGKAKGK
KAQMCADVLP SPRGKRVIPQ VTVEMKAEAE KKIRKKIKSE NVEGTPAEDG AEPGSLRQRI
EKKQKKEPGA KKQTTLPPFKP VKKGRKKNPW SDESSEVSSN ESNVDVPPRQ KEQRSAAAKA
KFTVDLDSDE DFSGLDEKDE DEDFLPLDAT PPKAKIPPKN TKKALKTQGS SMSVVDLESD
VKDSVPASPG VPAADFPAET EQSKPSKKT VVKKTATKSQ SSVSTAGTKK RAAPKGTKSD
SALSARVSEK PAPAKAKNSR KRKPSSSDSS DSDFERAISK GATSKKAKGE EQDFPVDLED
TIAPRAKSDR ARKPIKYLEE SDDDDDLF **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

Target:	Topoisomerase II alpha (TOP2A)
Alternative Name:	Top2a (TOP2A Products)
Background:	DNA topoisomerase 2-alpha (EC 5.6.2.2) (DNA topoisomerase II, alpha isozyme),FUNCTION: Key decatenating enzyme that alters DNA topology by binding to two double-stranded DNA molecules, generating a double-stranded break in one of the strands, passing the intact strand through the broken strand, and religating the broken strand (PubMed:1331984). May play a role in regulating the period length of BMAL1 transcriptional oscillation (PubMed:24321095). {ECO:0000269 PubMed:1331984, ECO:0000269 PubMed:24321095}.
Molecular Weight:	172.8 kDa
UniProt:	Q01320
Pathways:	Cell Division Cycle , Mitotic G1-G1/S Phases

Application Details

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.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition 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:	12 months