

Datasheet for ABIN3095983 TOP1MT Protein (AA 51-601) (His tag)



Go to Product page

Overview		
Quantity:	1 mg	
Target:	TOP1MT	
Protein Characteristics:	AA 51-601	
Origin:	Human	
Source:	Insect Cells	
Protein Type:	Recombinant	
Purification tag / Conjugate:	This TOP1MT protein is labelled with His tag.	
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA, Crystallization (Crys)	

Product Details

	special request, please contact us.
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	ALAMAGEDFE F
	QEQLAQLSVQ ATDKEENKQV ALGTSKLNYL DPRISIAWCK RFRVPVEKIY SKTQRERFAW
	ATPSTFEKSM QNLQTKIQAK KEQVAEARAE LRRARAEHKA QGDGKSRSVL EKKRRLLEKL
	KHLQELMDGL TAKVFRTYNA SITLQEQLRA LTRAEDSIAA KILSYNRANR VVAILCNHQR
	HPEADGCQHV VEFDFLGKDC IRYYNRVPVE KPVYKNLQLF MENKDPRDDL FDRLTTTSLN
	DEIRSQYRAD WKSREMKTRQ RAVALYFIDK LALRAGNEKE DGEAADTVGC CSLRVEHVQL
	PPAGHQWKEV RSDNTVTWLA AWTESVQNSI KYIMLNPCSK LKGETAWQKF ETARRLRGFV
	QQEFGYCILD GHQEKIGNFK IEPPGLFRGR GDHPKMGMLK RRITPEDVVI NCSRDSKIPE
	RKNFFNDWRK EMAVEEREVI KSLDKCDFTE IHRYFVDKAA ARKVLSREEK QKLKEEAEKL
Sequence:	VKWRQLEHKG PYFAPPYEPL PDGVRFFYEG RPVRLSVAAE EVATFYGRML DHEYTTKEVF

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Product Details		
Characteristics:	 Made in Germany - from design to production - by highly experienced protein experts. Human TOP1MT 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:	
	 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	
Endotoxin Level:	Protein is endotoxin free.	
Grade:	Crystallography grade	

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Target Details

mitochondrial DNA by transiently cleaving and rejoining one strand of the DNA du introduces a single-strand break via transesterification at a target site in duplex D scissile phosphodiester is attacked by the catalytic tyrosine of the enzyme, resulti formation of a DNA-(3'-phosphotyrosyl)-enzyme intermediate and the expulsion o strand. The free DNA strand then undergoes passage around the unbroken strand removing DNA supercoils. Finally, in the religation step, the DNA 5'-OH attacks the intermediate to expel the active-site tyrosine and restore the DNA phosphodiester similarity). (EC0:0000250, EC0:0000269(PubMed:11526219). Molecular Weight: 65.2 kDa Including tag. UniProt: Q969P6 Application Details				
Background: Releases the supercoiling and torsional tension of DNA introduced during duplical mitochondrial DNA by transiently cleaving and rejoining one strand of the DNA du Introduces a single-strand break via transesterification at a target site in duplex D scissile phosphodiester is attacked by the catalytic tyrosine of the enzyme, resulti formation of a DNA-(3: phosphotyrosyl)-enzyme intermediate and the expulsion o strand. The free DNA strand then undergoes passage around the unbroken strand removing DNA supercoils. Enally, in the religation step, the DNA 5'-OH attacks the intermediate to expel the active-site tyrosine and restore the DNA phosphodiester similarity). (ECO:0000250, ECO:0000269]PubMed:11526219). Molecular Weight: 65.2 kDa Including tag. UniProt: Q969P6 Application Details In addition to the applications listed above we expect the protein to work for functional studies yet we cannot of though. Comment: In cases in which it is highly likely that the recombinant protein with the default ta insoluble our protein has not been tested for functional studies yet we cannot of though. Comment: In cases in which it is highly likely that the recombinant protein with the default ta insoluble our protein b may suggest a higher molecular weight tag (e.g. GST-tag increase solubility. We will discuss all possible options with you in detail to assure receive your protein of interest. Restrictions: For Research Use only Handling Inquid Buffer: 100 mM NaCL_20 mM Hepes, 10% glycerol. pH value is at the discretion of the m Handling Advice: Handling </td <td>TOP1MT</td> <td colspan="2">TOP1MT</td>	TOP1MT	TOP1MT		
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UniProt: Q969P6 Application Details In addition to the applications listed above we expect the protein to work for funct as well. As the protein has not been tested for functional studies yet we cannot of though. Comment: In cases in which it is highly likely that the recombinant protein with the default ta insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag increase solubility. We will discuss all possible options with you in detail to assure receive your protein of interest. Restrictions: For Research Use only Handling Iuquid Buffer: 100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the me Handling Advice: Avoid repeated freeze-thaw cycles. Storage: storage Comment: Storage Comment:	mitochondrial DNA by tra Introduces a single-stran scissile phosphodiester i formation of a DNA-(3'-pl strand. The free DNA stra removing DNA supercoils intermediate to expel the	Releases the supercoiling and torsional tension of DNA introduced during duplication of mitochondrial DNA 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-(3'-phosphotyrosyl)-enzyme intermediate and the expulsion of a 5'-OH DN/ strand. The free DNA strand then undergoes passage around the unbroken strand thus removing DNA supercoils. Finally, in the religation step, the DNA 5'-OH attacks the covalent intermediate to expel the active-site tyrosine and restore the DNA phosphodiester backbone (E similarity). {ECO:0000250, ECO:0000269 PubMed:11526219}.		
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Expiry Date: Unlimited (if stored properly)	Store at -80°C.	Store at -80°C.		
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