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Datasheet for ABIN3136184 TDP1 Protein (AA 1-609) (His tag)

1 Image



Overview

Quantity:	1 mg
Target:	TDP1
Protein Characteristics:	AA 1-609
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TDP1 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA, Crystallization (Crys)

Product Details

	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	THGNMWVPS
	GVLFLPSAFG LDTFKVKQKF FSSSCEPTAS FPVPYDLPPE LYRSKDRPWI WNIPYVKAPD
	WSAETSGRSN AMPHIKTYMR PSPDFSKLAW FLVTSANLSK AAWGALEKNG TQLMIRSYEL
	LLALREEGRP PGKSAVPLHL IYPSVENVRT SLEGYPAGGS LPYSIQTAEK QRWLHSYFHK
	GRFQGSHRDN WGHFRLRKLL QAHAPSTPKG ECWPIVGQFS SIGSLGPDES KWLCSEFKDS
	PLYPRIDQGS HTAGESSTRF KADLTSYLTA YNAPPLQEWI DIIQEHDLSE TNVYLIGSTP
	AQAKPYANIS LCQAKLDIAF GTHHTKMMLL LYEEGLRVVI HTSNLIREDW HQKTQGIWLS
	SKALHIKDIL SPLFGTLVSS AQFNYCFDVD WLIKQYPPEF RKNPILLVHG DKREAKADLH
	DVTTAQKVVD RSPPASLRPQ RADDEYETSG EGQDIWDMLD KGNPFQFYLT RVSGIKAKYN
	SPVKFNDADS VLPHKKQKSD SPEGLGWCLS SSDDDQQPDV TQQEQPKRVL PQEKKHVSSP
Sequence:	MSQESSYGKW TISSSDESED EKPKPDKPSA SSHPQAGQGV SKELIYTCSE ARKVAHKRQI

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Product Details

	special request, please contact us.
Characteristics:	 Made in Germany - from design to production - by highly experienced protein experts. Mouse Tdp1 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.
	2. 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

Target:	TDP1
Alternative Name:	Tdp1 (TDP1 Products)
Background:	DNA repair enzyme that can remove a variety of covalent adducts from DNA through hydrolysis of a 3'-phosphodiester bond, giving rise to DNA with a free 3' phosphate. Catalyzes the
	hydrolysis of dead-end complexes between DNA and the topoisomerase I active site tyrosine
	residue. Hydrolyzes 3'-phosphoglycolates on protruding 3' ends on DNA double-strand breaks
	due to DNA damage by radiation and free radicals. Acts on blunt-ended double-strand DNA
	breaks and on single-stranded DNA. Has low 3'exonuclease activity and can remove a single
	nucleoside from the 3'end of DNA and RNA molecules with 3'hydroxyl groups. Has no
	exonuclease activity towards DNA or RNA with a 3'phosphate (By similarity).
	{EC0:0000250 UniProtKB:Q9NUW8, EC0:0000269 PubMed:17914460,
	EC0:0000269 PubMed:17948061}.
Molecular Weight:	69.6 kDa Including tag.
UniProt:	Q8BJ37
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
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.

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Handling
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Expiry Date:

Unlimited (if stored properly)

Images



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

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