

Datasheet for ABIN7555891
TDP1 Protein (AA 1-608) (His tag)



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Overview

Quantity:	1 mg
Target:	TDP1
Protein Characteristics:	AA 1-608
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TDP1 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat TDP1 Protein expressed in mammalien cells.
Sequence:	MSQEGDYGRW TISSSESEE EKPKPDKPST SLLCARQGA ANEPRYTCSE AQKAAHKRKI SPVKFSNTDS VLPPKRQKSG SQEDLGWCLS SSDDELQPEM PQQQAQKQVVI KKEKDISAPN DGTAQRTENH GAPACHRLKE EEDEYETSGE GQDIWDMLDK GNPFQFYLTR VSGVKPKYNS GALHIKDILS PLFGTLVSSA QFNCFDVDW LVKQYPPEFR KKPILLVHGD KREAKAHLHA QAKPYENISL CQAKLDIAFG THHTKMMLLL YEEGLRVVIH TSNLIHADWH QKTQGIWLSP LYPRIADGTH KSGESPTDFK ADLISYLMAY NAPSLKEWID VIHKHDLSET NVYLIGSTPG RFQGSQKDNW GHFRLKLLK DHASSMPNAE SWPVVQGQFSS VGSLGADESK WLCSEFKESM LTLGKESKTP GKSSVPLYLI YPSVENVRTS LEGYPAGGSL PYSIQTAEKQ NWLHSYFHKW SAETSGRSNA MPHIKTYMRP SPDFSKIAWF LVTSANLSKA AWGALEKNGT QLMIRSYELG VFLFLPSAFGL DSKVKQKFF AGSQEPMATF PVPYDLPEL YGSKDRPWIW NIPYVKAPDT HGNMWVPS 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.

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, Western Blot

Grade:

custom-made

Target Details

Target:

TDP1

Alternative Name:

TDP1 ([TDP1 Products](#))

Background:

Tyrosyl-DNA phosphodiesterase 1 (Tyr-DNA phosphodiesterase 1) (EC 3.1.4.-),FUNCTION: 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. {ECO:0000269|PubMed:12023295, ECO:0000269|PubMed:15111055, ECO:0000269|PubMed:15811850, ECO:0000269|PubMed:16141202, ECO:0000269|PubMed:22822062}.

Target Details

Molecular Weight: 68.4 kDa

UniProt: [Q9NUW8](#)

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 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