

TDG recombinant protein

TDG, 1-410aa, Human, His tag, E Coli (Denatured)

CATALOG # AAA11810	HOST E. coli	APPLICATIONS SDS-Page
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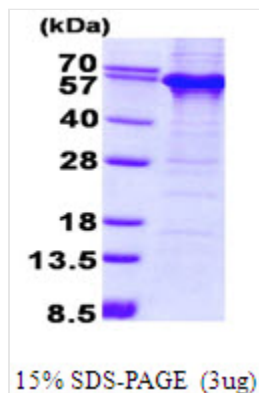
PRODUCT SYNONYMS

TDG; 1-410aa; Human; His tag; E Coli (Denatured); Thymine-DNA glycosylase; G/T mismatch-specific thymine DNA glycosylase; ; TDG recombinant protein

PRODUCT SPECIFICATIONS

Host	E. coli
Purity/Purification	> 85% by SDS-PAGE
Form/Format	Liquid. In 20mM Tris-HCl Buffer (pH 8.0) containing 0.4 urea, 10% glycerol, 0.1M NaCl
Concentration	0.5 mg/ml (determined by Bradford assay) (varies by lot)
Sequence	MGSSHHH HHHSSGLVPR GSHMGS MEAENAGSYS LQQAQAFYTF PFQQLMAEAP NMAVVNEQQM PEEVPAPAPA QEPVQEAPKG RKRKPRTEP KQPVEPKPV ESKKSGKSAK SKEKQEKITD TFKVKRKVDR FNGVSEAELL TKTLPDILTF NLDIVIIGIN PGLMAAYKGH HYPGPGNHFW KCLFMSGLSE VQLNHMDHT LPGKYGIGFT NMVERTTPGS KDLSSKEFRE GGRILVQKLQ KYQPRIAVFN GKCIYEFSK EVFGVKVKNL EFGLQPHKIP DTETLCYGMP SSSARCAQFP RAQDKVHYI KLKDLRDQLK GIERNMDVQE VQYTFDLQLA QEDAKKMAVK EEKYDPGYEA AYGGAYGENP CSSEPCGFSS NGLIESVELR GESAFSGIPN GQWMTQSFTD QIPSFNNHCG TQEQUEESHA
Applicable Applications for TDG recombinant protein	SDS-PAGE
Application Notes	This protein is denatured. Denatured protein is most likely not the best option for functional studies. Denatured protein is better suited for Western Blot (WB) or imaging assays. Applications are user determined.
Tag Information	His-tag
Preparation and Storage	Can be stored at +2°C to +8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles.

IMAGES



SDS-PAGE

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

ADDITIONAL INFORMATION

Related Product Information for TDG recombinant protein	Thymine-DNA glycosylase, also known as TDG, belongs to the TDG/mug DNA glycosylase family. TDG is a nuclear protein which corrects G/T mismatches to G/C pairs by hydrolyzing the carbon-nitrogen bond between the sugar-phosphate backbone of the DNA and the mispaired thymine. TDG can also remove uracil and 5-bromouracil from mispairings with guanine. This enzyme plays a central role in cellular defense against genetic mutation caused by the spontaneous deamination of 5-methylcytosine and cytosine. Recombinant human TDG protein, fused to His-tag at N-terminus, was expressed in E Coli
Product Categories/Family for TDG recombinant protein	Epigenomics
References	um S., et al. (1998) J Biol Chem. 273:20728-20736.; Hardeland u., et al. (2002) EMBO J. 21:1456-1464.

NCBI AND UNIPROT INFORMATION

NCBI GI #	22902196
NCBI GeneID	6996
Molecular Weight	48.4 kDa (433aa)
NCBI Official Full Name	Thymine-DNA glycosylase
NCBI Official Synonym Full Names	thymine DNA glycosylase
NCBI Official Symbol	TDG
NCBI Official Synonym Symbols	hTDG
NCBI Protein Information	G/T mismatch-specific thymine DNA glycosylase
UniProt Protein Name	G/T mismatch-specific thymine DNA glycosylase
UniProt Gene Name	TDG
UniProt Synonym Gene Names	hTDG

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/tdg-recombinant-protein-e-coli-sds-page/11810>