

G/T mismatch-specific thymine DNA glycosylase (TDG) Recombinant Protein | TDG recombinant protein

Recombinant Human G/T mismatch-specific thymine DNA glycosylase (TDG)

CATALOG # AAA117615	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
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PRODUCT SYNONYMS

G/T mismatch-specific thymine DNA glycosylase (TDG); Recombinant Human G/T mismatch-specific thymine DNA glycosylase (TDG); TDG recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	1-410aa; Full Length
Sequence	MEAENAGSYS LQQAQAFYTF PFQQLMAEAP NMAVVNEQQM PEEVPAPAPA QEPVQEAPKG RKRKPRTTEP KQPVEPKPV ESKKSGKSAK SKEKQEKITD TFKVKRKVDR FNGVSEAELL TKTLPDILTF NLDIVIIGIN PGLMAAYKGH HYPGPGNHFW KCLFMSGLSE VQLNHMDDHT LPGKYGIGFT NMVERTTPGS KDLSSKEFRE GGRILVQKLQ KYQPRIAVFN GKCIYEIFSK EVFGVKVKNL EFGLQPHKIP DTETLCYVMP SSSARCAQFP RAQDKVHHYI KLDLRDQLK GIERNMDVQE VQYTFDLQLA QEDAKKMAVK EEKYDPGYEA AYGGAYGENP CSSEPCGFSS NGLIESVELR GESAFSGIPN GQWMTQSFTD QIPFSFNHCG TQEQUEESHA
Species	Human
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.

ADDITIONAL INFORMATION

Related Product Information for TDG recombinant protein	This protein belongs to the TDG mug DNA glycosylase family. Thymine-DNA glycosylase (TDG) removes thymine moieties from G T mismatches by hydrolyzing the carbon-nitrogen bond between the sugar-phosphate backbone of DNA and the mispaired thymine. With lower activity, this enzyme also removes thymine from C T and T T mispairings. 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. This gene may have a pseudogene in the p arm of chromosome 12.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	59853162
NCBI GeneID	6996
NCBI Accession #	NP_003202.3
NCBI GenBank Nucleotide #	NM_003211.4
UniProt Accession #	Q13569; Q8IUZ6; Q8IZM3
Molecular Weight	46,053 Da

NCBI Official Full Name	G/T mismatch-specific 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-or-yeast-or-baculovirus-or-mammalian-cell/117615>