

Recombinant Human TDG Protein, His-tagged

Cat. No. TDG-122H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TDG Protein, fused to His-tag, was expressed in E. coli.
Species	Human
Source	E.coli
Description	The protein encoded by this gene 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.
Form	50mM Tris, 300mM NaCl, pH8.0.
Molecular Mass	26.5 kDa
AA Sequence	MDDATNKKRKVFVSTILTFWNTDRRDFPWRHTRDPYVILITEILLRRTTAGHVKKIYD KFFVKYKCFEDILKTPKSEIAKDIKEIGLSNQRAEQLKELARVVINDYGGRVPRNRKAI LDLPGVGKYTCAAVMCLAFGKKAAMVDANFVRVINRYFGGSYENLNYNHKALWELA ETLVPGGKCRDFNLGLMDFSAIICAPRKPCKCEKCGMSKLC SYYEK CSTLEHHHHHH
Purity	>90%

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Storage

Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Concentration

0.2 mg/ml

GENE INFORMATION**Gene Name**

TDG thymine DNA glycosylase [Homo sapiens (human)]

Official Symbol

TDG

Synonyms

hTDG

Gene ID

6996

mRNA Refseq

NM_001363612

Protein Refseq

NP_001350541

MIM

601423

UniProt ID

Q13569

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SDS-PAGE

Reducing 12% SDS-PAGE analysis profile of purified thymine (CBB stained).

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