

Human TDG protein

Cat. No. TDG-7443H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Description	TDG is a DNA glycosylase that removes T from the TG mismatch in DNA. Such mismatch can derive from deamination of methylated C in DNA. TDG is a mono functional glycosylase that leaves an intact AP site in DNA following its glycosylase action. In addition to T, U or ethenoC opposite G is also recognized by TDG.
Form	The protein is supplied in 20 mM sodium phosphate (pH 7.5), 150 mM NaCl, 5 mM β -mercaptoethanol, 10% glycerol.

GENE INFORMATION

Gene Name	TDG thymine-DNA glycosylase [Homo sapiens]
Official Symbol	TDG
Synonyms	TDG; thymine-DNA glycosylase; G/T mismatch-specific thymine DNA glycosylase; EC 3.2.2.29
Gene ID	6996
mRNA Refseq	NM_003211
Protein Refseq	NP_003202

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MIM	601423
UniProt ID	Q13569
Chromosome Location	12q24.1
Pathway	Base excision repair, conserved biosystem; Depyrimidination, organism-specific biosystem; Fluoropyrimidine Activity, organism-specific biosystem; Base excision repair, organism-specific biosystem; Base-Excision Repair, AP Site Formation, organism-specific biosyst
Function	damaged DNA binding; mismatched DNA binding; protein binding; pyrimidine-specific mismatch base pair DNA N-glycosylase activity
	