

## **Product datasheet for AR50529PU-N**

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OriGene Technologies, Inc.

## TDG (1-410, His-tag) Human Protein

**Product data:** 

**Product Type:** Recombinant Proteins

**Description:** TDG (1-410, His-tag) human protein, 0.5 mg

Species: Human
Expression Host: E. coli

**Expression cDNA Clone** 

or AA Sequence:

MGSSHHHHHH SSGLVPRGSH MGSMEAENAG SYSLQQAQAF YTFPFQQLMA EAPNMAVVNE QQMPEEVPAP APAQEPVQEA PKGRKRKPRT TEPKQPVEPK KPVESKKSGK SAKSKEKQEK

ITDTFKVKRK VDRFNGVSEA ELLTKTLPDI LTFNLDIVII GINPGLMAAY KGHHYPGPGN HFWKCLFMSG LSEVOLNHMD DHTLPGKYGI GFTNMVERTT PGSKDLSSKE FREGGRILVO

KLQKYQPRIA VFNGKCIYEI FSKEVFGVKV KNLEFGLQPH KIPDTETLCY GMPSSSARCA
QFPRAQDKVH YYIKLKDLRD QLKGIERNMD VQEVQYTFDL QLAQEDAKKM AVKEEKYDPG
YEAAYGGAYG ENPCSSEPCG FSSNGLIESV ELRGESAFSG IPNGQWMTQS FTDQIPSFSN

**HCGTQEQEEE SHA** 

Tag: His-tag
Predicted MW: 48.4 kDa
Concentration: lot specific

Purity: >90% by SDS - PAGE

**Buffer:** Presentation State: Purified

State: Liquid purified protein

Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 0.4 Urea, 10% glycerol, 0.1M NaCl

**Preparation:** Liquid purified protein

Storage: Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.

Avoid repeated freezing and thawing.

**Stability:** Shelf life: one year from despatch.

**RefSeq:** NP 003202

**Locus ID:** 6996

UniProt ID: Q13569, <u>B4E127</u>

Cytogenetics: 12q23.3
Synonyms: hTDG





## TDG (1-410, His-tag) Human Protein - AR50529PU-N

Summary: 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. [provided by RefSeq, Jul 2008]

**Protein Families:** Druggable Genome

**Protein Pathways:** Base excision repair