

Datasheet for ABIN1098673

**TDG Protein (His tag)****1** Image[Go to Product page](#)

## Overview

Quantity:	100 µg
Target:	TDG
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This TDG protein is labelled with His tag.
Application:	SDS-PAGE (SDS)

## Product Details

Purity: > 90 % by SDS - PAGE

## Target Details

Target:	TDG
Alternative Name:	TDG ( <a href="#">TDG Products</a> )

**Background:** 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

## Target Details

Molecular Weight: 48.4 kDa (433aa)

Pathways: [DNA Damage Repair, Chromatin Binding](#)

## Application Details

Comment: Synonyms: Thymine-DNA glycosylase, G/T mismatch-specific thymine DNA glycosylase

Restrictions: For Research Use only

## Handling

Format: Liquid

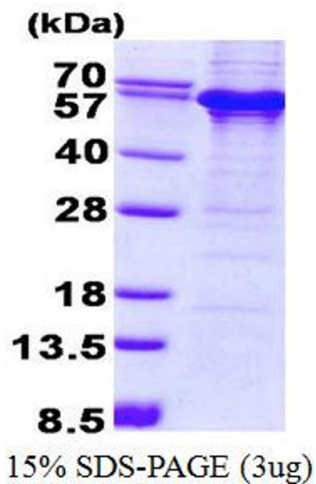
Concentration: 0.5 mg/ml (determined by Bradford assay)

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

Storage: 4 °C

Storage Comment: Avoid repeated freezing and thawing cycles.

## Images



### SDS-PAGE

Image 1.