

Recombinant Human TDG Protein Product Manual

1. Product Basic Information

Product No.: REP08416

Protein Name: Thymine Dna Glycosylase (TDG)

Aliases: thymine DNA glycosylase

UniProt ID: Q13569

UniProt Link: <https://www.uniprot.org/uniprotkb/Q13569/entry>

Species Source: Homo sapiens (Human)

Expression System: E.coli

Protein Length: Full Length (1-410aa)

Molecular Weight: 52.1 kDa

Protein Tag: N-terminal 10xHis-tagged

2. Amino Acid Sequence (1-410aa)

MEAENAGSYSLQQAQAFYTFPFQQLMAEAPNMAVVNEQQMPPEEVPAPAPAQEPV
QEAPKGRKRKPRTTEPKQPVEPKKPVESKSGKSAKSKEKQEKITDTFKVCRKVDR
FNGVSEAELLTKTLPDILTFNLDIVIIIGINPGLMAAYKGGHHYPGPGNHFWKCLFMSG
SEVQLNHMDHTLPGKYGIGFTNMVERTTPGSKDLSSKEFREGGRILVQKLQKYQP
RIAVFNGKCIYEIFSKEVFGVKVKNLEFGLQPHKIPDTETLCYVMPSSSARCAQFPRA
QDKVHYYIKLKDRLDQLKGIERNMDVQEVQYTFDLQLAQEDAKKMAVKEEKYDPGY
EAAAYGGAYGENPCSSEPCGFSSNGLIESVELRGESAFSGIPNGQWMTQSFTDQIPS
FSNHCGTQEQEEESHA

3. Storage Buffer

Liquid Delivery Form: Tris/PBS-based buffer with 5%-50% glycerol. Custom glycerol content is available upon customer request (please specify requirements when placing orders).

Lyophilized Powder Delivery Form: Pre-lyophilization buffer is Tris/PBS-based buffer containing 6% Trehalose.



4. Storage Conditions

Upon receipt, store the product at -20°C or -80°C. It is recommended to aliquot the protein for multiple uses to avoid repeated freeze-thaw cycles, which may cause protein denaturation and activity loss.

5. Product Description

This product is a recombinant Human TDG full length protein (1-410aa) expressed in E.coli. The protein is with 10xHis tag at the N-terminus, which facilitates protein purification, detection and identification. TDG, also known as thymine DNA glycosylase, is suitable for related in vitro functional assays, protein interaction studies, antibody preparation and other biomedical research applications.

6. Notes

- Repeated freezing and thawing of the product is strictly prohibited to ensure protein stability and biological activity.
- For special buffer component requirements, please submit a note when purchasing.
- This product is only for scientific research use, not for clinical diagnosis, treatment or commercial production purposes.