

Thymine-DNA Glycosylase Human Recombinant

Item Number	rAP-1137
Synonyms	Thymine-DNA Glycosylase, G/T Mismatch-Specific Thymine DNA Glycosylase, EC 3.2.2.29.
Description	TDG Human Recombinant produced in E. coli is a single polypeptide chain containing 433 amino acids (1-410) and having a molecular mass of 48.4 kDa. TDG is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.
Uniprot Accession Number	Q13569
Amino Acid Sequence	MGSSHHHHH SSGLVPRGSH MGSMEAENAG SYSLQQAQAF YTFPFQQLMA EAPNMAVVNE QQM-PEEVPAAP APAQEPVQEA PKGRKRKPRTPTEPKQPVEPK KPVESKKSGK SAKSKEKQEK ITDTFKVKRK VDRFNGVSEA ELLTKTLPDI LTFNLDIVII GINPGLMAAY KGHHPGPGN HFWKCLFMSG LSEVQLNHMD DHTLPGKYGI GFTNMVERTT PGSKDLSSKE FREGGRILVQ KLQKYQPRIA VFNGKCIYEI FSKEVFGVKV KNLEFGLQPH KIPDTETLCY GMPSSSARCA QFPRAQDKVH YYIKLKDRLD QLKGIERNMD VQEVQYTFDL QLAQEDAKKM AVKEEKYDPG YEAAYGAYG ENPCSSEPCG FSSNGLIESV ELRGE-SAFSG IPNGQWMTQS FTDQIPFSN HCGTQEQUEEE SHA.
Source	E.coli.
Physical Appearance and Stability	Sterile Filtered colorless solution. Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.
Formulation and Purity	The TDG solution (0.5mg/1ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.1M NaCl, 0.4M Urea and 10% glycerol. Greater than 90% as determined by SDS-PAGE.
Application	
Solubility	
Biological Activity	
Shipping Format and Condition	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**