Single-Strand-Selective Monofunctional Uracil-DNA Glycosylase 1 Hu-

Item Number	rAP-1138
Synonyms	Single-strand selective monofunctional uracil DNA glycosylase, SMUG1, FDG, UNG3, HMUDG.
Description	SMUG1 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 293 amino acids (1-270) and having a molecular mass of 32.3kDa.SMUG1 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.
Uniprot Accesion Number	Q53HV7
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSMPQAFLL GSIHEPAGAL MEPQPCPGSL AESFLEEELR LNAELSQLQF SEPVGIIYNP VEYAWEPHRN YVTRYCQGPK EVLFLGMNPG PFGMAQTGVP FGEVSMVRDW LGIVGPVLTP PQEHPKRPVL GLECPQSEVS GARFWGFFRN LCGQPEVFFH HCFVHNLCPL LFLAPSGRNL TPAELPAKQR EQLLGICDAA LCRQVQLLGV RLVVGVGRLA EQRARRA-LAG LMPEVQVEGL LHPSPRNPQA NKGWEAVAKE RLNELGLLPL LLK.
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 SMUG1 solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.2M NaCl, 30% glycerol and 1mM DTT. Greater than 95% 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