## **Product information**



## SMUG1, 1-270aa

Human, His-tagged, Recombinant, E.coli

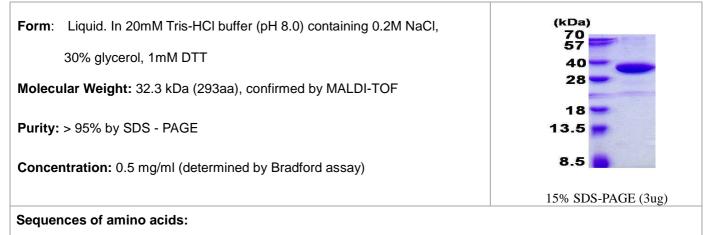
## Cat. No. IBATGP1848

Full name: Single-strand-selective monofunctional uracil-DNA glycosylase

NCBI Accession No.: NP\_055126

Synonyms: FDG, HMUDG, UNG3

**Description**: Single-strand-selective monofunctional uracil-DNA glycosylase, also known as SMUG1, is a enzyme responsible for recognizing base lesions in the genome and initiating base excision DNA repair. This protein acts as a monofunctional DNA glycosylase specific for uracil (U) residues in DNA and has a preference for single-stranded DNA substrates. Recombinant human SMUG1 protein, fused to His-tag at N-terminus, was expressed in *E.coli* and purified by using conventional chromatography techniques.



MGSSHHHHHH SSGLVPRGSH MGSMPQAFLL GSIHEPAGAL MEPQPCPGSL AESFLEEELR LNAELSQLQF SEPVGIIYNP VEYAWEPHRN YVTRYCQGPK EVLFLGMNPG PFGMAQTGVP FGEVSMVRDW LGIVGPVLTP PQEHPKRPVL GLECPQSEVS GARFWGFFRN LCGQPEVFFH HCFVHNLCPL LFLAPSGRNL TPAELPAKQR EQLLGICDAA LCRQVQLLGV RLVVGVGRLA EQRARRALAG LMPEVQVEGL LHPSPRNPQA NKGWEAVAKE RLNELGLLPL LLK

## **General references:**

Masaoka A., et al. (2003) Biochemistry. 42:5003-5012 Boorstein R.J., et al. (2001) J. Biol. Chem. 276:41991-41997

**Storage:** Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.

