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Recombinant human SMUG1 protein

Catalog Number: ATGP1848

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-270aa

UniProt No.

053HV7

NCBI Accession No.

NP 055126

Alternative Names

Single-strand-selective monofunctional uracil-DNA glycosylase, FDG, HMuDG, uNG3

PRODUCT SPECIFICATION

Molecular Weight

32.3 kDa (293aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 30% glycerol, 1mM DTT

Purity

> 95% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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.



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Amino acid Sequence

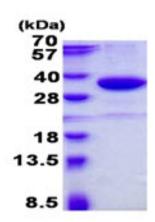
MGSSHHHHHH SSGLVPRGSH MGSMPQAFLL GSIHEPAGAL MEPQPCPGSL AESFLEEELR LNAELSQLQF SEPVGIIYNP VEYAWEPHRN YVTRYCQGPK EVLFLGMNPG PFGMAQTGVP FGEVSMVRDW LGIVGPVLTP PQEHPKRPVL GLECPQSEVS GARFWGFFRN LCGQPEVFFH HCFVHNLCPL LFLAPSGRNL TPAELPAKQR EQLLGICDAA LCRQVQLLGV RLVVGVGRLA EQRARRALAG LMPEVQVEGL LHPSPRNPQA NKGWEAVAKE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

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

