

# Recombinant Human SMUG1 Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** SMUG1-1241H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                  |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | SMUG1 MS Standard C13 and N15-labeled recombinant protein (NP_055126) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.                                                                                                                                                                                              |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                            |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                           |
| <b>Description</b>      | This gene encodes a protein that participates in base excision repair by removing uracil from single- and double-stranded DNA. Many alternatively spliced transcript variants exist for this gene; the full-length nature is known for some but not all of the variants.                                                         |
| <b>Molecular Mass</b>   | 29.7 kDa                                                                                                                                                                                                                                                                                                                         |
| <b>AA Sequence</b>      | MPQAFLLGSIHEPAGALMEPQPCPGSLAESFLEEELRLNAELSQLQFSEPVGIIYNPV<br>EYAWEPHRNYVTRYCQGPKEVLFLGMNPGPFGMAQTGVPFGEVSMVRDWLGIVG<br>PVLTPPQEHPKRPVLGLECPQSEVSGARFWGFFRNLCGQPEVFFHHCFVHNLCPLL<br>FLAPSGRNLTPAELPAKQREQLLGICDAALCRQVQLLGVRLVVGVGRLAEQRARRA<br>LAGLMPEVQVEGLLHPSRNPQANKGWEAVAKERLNELGLLPLLLKTRTRPLEQKLI<br>SEEDLAANDILDYKDDDDKV |
| <b>Purity</b>           | > 80% as determined by SDS-PAGE and Coomassie blue staining                                                                                                                                                                                                                                                                      |
| <b>Stability</b>        | Stable for 3 months from receipt of products under proper storage and handling                                                                                                                                                                                                                                                   |

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conditions.

**Storage** Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

**Concentration** 50 µg/mL as determined by BCA

**Storage Buffer** 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

## GENE INFORMATION

**Gene Name** SMUG1 single-strand-selective monofunctional uracil-DNA glycosylase 1 [ Homo sapiens (human) ]

**Official Symbol** SMUG1

**Synonyms** SMUG1; single-strand-selective monofunctional uracil-DNA glycosylase 1; single-strand selective monofunctional uracil DNA glycosylase; FDG; HMUDG; UNG3; MGC104370;

**Gene ID** 23583

**mRNA Refseq** NM\_014311

**Protein Refseq** NP\_055126

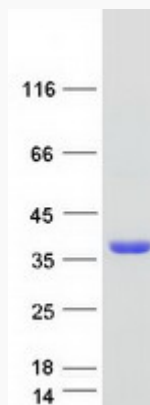
**MIM** 607753

**UniProt ID** Q53HV7

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**SDS-PAGE**

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