

Recombinant Human SMUG1 protein, GST-tagged

Cat. No. SMUG1-2826H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human SMUG1 protein(1-134 aa), fused with N-terminal GST tag, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	1-134 aa
Form	The purified protein was lyophilized from sterile phosphate-buffered saline (PBS: 58 mM Na ₂ HPO ₄ , 17 mM NaH ₂ PO ₄ , 68 mM NaCl, pH 8.0). Prior to lyophilization, 5% (w/v) trehalose and 5% (w/v) mannitol were incorporated as cryoprotective excipients. The protein was eluted with a buffer containing 100 mM reduced glutathione (GSH).
AASequence	MPQAFLLGSIHEPAGALMEPQPCPGSLAESFLEEEELRLNAELSQLQFSEPVGIIYNPV EYAWEPHRNYVTRYCQGPKEVLFLGMNPGPFGMAQTGVPFGEVSMVRDWLGIVG PVLTPPQEHPKRPVLGLECPQS
Purity	85%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Storage	Store at 2-8°C for 1-2 weeks. Aliquot and store at -20°C to -80°C for up to 3 months, reconstitution with sterile water and addition of an equal volume of glycerol. Avoid repeat freeze-thaw cycles.

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Reconstitution Dissolve the product in 200 µl sterile water to achieve a working concentration of 0.25 g/µl. If experimental compatibility allows, mix the aqueous solution with an equal volume of glycerol (1:1 ratio) after initial reconstitution.

GENE INFORMATION

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

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_001243787

Protein Refseq NP_001230716

MIM 607753

UniProt ID Q53HV7

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