

Datasheet for ABIN7555558
SMUG1 Protein (AA 1-270) (His tag)



[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	SMUG1
Protein Characteristics:	AA 1-270
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SMUG1 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant SMUG1 Protein expressed in mammalian cells.
Sequence:	MPQAFLLGSI HEPAGALMEP QPCPGSLAES FLEEELRLNA ELSQLQFSEP VGIIYNPVEY AWEPHRNYVT RYCQGPKEVL FLGMNPGPFG MAQTGVPFGE VSMVRDWLGI VGPVLTPPQE HPKRPVLGLE CPQSEVSGAR FWGFFRNLCG QPEVFFHHCF VHNLCPLLFL APSGRNLTPA ELPAKQREQL LGICDAALCR QVQLLGVRLV VGVGRLAEQR ARRALAGLMP EVQVEGLLHP SPRNPQANKG WEAVAKERLN ELGLLPLLLK Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits:

Product Details

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
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Grade:	custom-made
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Target Details

Target:	SMUG1
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Alternative Name:	SMUG1 (SMUG1 Products)
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Background:	Single-strand selective monofunctional uracil DNA glycosylase (EC 3.2.2.-),FUNCTION: Recognizes base lesions in the genome and initiates base excision DNA repair. Acts as a monofunctional DNA glycosylase specific for uracil (U) residues in DNA with a preference for single-stranded DNA substrates. The activity is greater toward mismatches (U/G) compared to matches (U/A). Excises uracil (U), 5-formyluracil (fU) and uracil derivatives bearing an oxidized group at C5 [5-hydroxyuracil (hoU) and 5-hydroxymethyluracil (hmU)] in ssDNA and dsDNA, but not analogous cytosine derivatives (5-hydroxycytosine and 5-formylcytosine), nor other oxidized bases. The activity is damage-specific and salt-dependent. The substrate preference is the following: ssDNA > dsDNA (G pair) = dsDNA (A pair) at low salt concentration, and dsDNA (G pair) > dsDNA (A pair) > ssDNA at high salt concentration. {ECO:0000269 PubMed:10074426, ECO:0000269 PubMed:11526119, ECO:0000269 PubMed:12161446, ECO:0000269 PubMed:12718543}.
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Molecular Weight:	29.9 kDa
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UniProt:	Q53HV7
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Target Details

Pathways: [DNA Damage Repair](#)

Application Details

Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months