

## Recombinant Human SUMO1, His-tagged

Cat. No. SUMO1-249H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human SUMO1 (UBL1) (2-97) was expressed in E. coli cells using an N-terminal His tag.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	2-97 a.a.
<b>Description</b>	SUMO1 (also known as UBL1) is a member of the SUMO (small ubiquitin-like modifier) protein family which functions in a manner similar to ubiquitin. SUMO1 is bound to target proteins as part of a post-translational modification system and it is involved in a variety of cellular processes, such as nuclear transport, transcriptional regulation, apoptosis, and protein stability. SUMO1 may be involved in the repair of TOP1-mediated DNA damage. The sumoylation pathway plays a significant role in mammalian DNA damage response.
<b>Form</b>	Recombinant protein stored in 50mM sodium phosphate, pH 7.0, 300mM NaCl, 150mM imidazole, 0.1mM PMSF, 0.25mM DTT, 25% glycerol.
<b>Molecular Mass</b>	~19 kDa
<b>Purity</b>	>90% by densitometry
<b>Applications</b>	Western Blot

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**Storage** Store product at –70 centigrade. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

**Concentration** 0.1 µg/µl

## GENE INFORMATION

**Gene Name** [SUMO1 SMT3 suppressor of mif two 3 homolog 1 \(S. cerevisiae\) \[ Homo sapiens \]](#)

**Official Symbol** SUMO1

**Synonyms** SUMO1; SMT3 suppressor of mif two 3 homolog 1 (S. cerevisiae); SMT3 suppressor of mif two 3 homolog 1 (yeast) , ubiquitin like 1 (sentrin) , UBL1; small ubiquitin-related modifier 1; GMP1; OFC10; PIC1; SMT3C; SMT3H3; SUMO 1; sentrin; SMT3 homolog 3; GAP modifying protein 1; ubiquitin-like protein UBL1; ubiquitin-like protein SMT3C; ubiquitin-homology domain protein PIC1; DAP1; SMT3; UBL1; SENP2;

**Gene ID** [7341](#)

**mRNA Refseq** [NM\\_001005781](#)

**Protein Refseq** [NP\\_001005781](#)

**MIM** [601912](#)

**UniProt ID** [P63165](#)

**Chromosome Location** 2q33

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**Pathway**

Cytokine Signaling in Immune system, organism-specific biosystem; Diurnally regulated genes with circadian orthologs, organism-specific biosystem; Immune System, organism-specific biosystem; Interferon Signaling, organism-specific biosystem; Interferon gamma signaling, organism-specific biosystem; Nuclear pore complex, organism-specific biosystem; RNA transport, organism-specific biosystem;

**Function**

protein binding; ubiquitin protein ligase binding;

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