

Recombinant Human Small Ubiquitin-related Modifier 1

Cat. No. SUMO1-20H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinanthuman SUMO1was produced by E. coli expression system.
Species	Human
Source	E.coli
Description	This geneencodes a protein that is a member of the SUMO (small ubiquitin-likemodifier) protein family. It functions in a manner similar to ubiquitin inthat it is bound to target proteins as part of a post-translationalmodification system. However, unlike ubiquitin which targets proteins fordegradation, this protein is involved in a variety of cellular processes,such as nuclear transport, transcriptional regulation, apoptosis, and proteinstability. It is not active until the last four amino acids of thecarboxy-terminus have been cleaved off. Several pseudogenes have been reportedfor this gene. Alternate transcriptional splice variants encoding differentisoforms have been characterized.
Purity	Greater than 95% as determined by SEC-HPLC.Greater than 95% as determined by reducing SDS-PAGE.
EndotoxinLevel	Less than 0.1 ng/μg (1 IEU/μg).
Formulation	Lyophilized at 1mg/ml in 20mM PBS
Reconstitution	Werecommend a quick spin followed by reconstitution of Recombinant Human SUMO1in sterile 18M -cm H2O not less than 100 g/ml, which can then befurther

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diluted to working solutions.

Storage

Lyophilized Recombinant Human SUMO1 although stable at room temperature for 3 weeks, should be stored desiccated below -18 C. Upon reconstitution Recombinant Human SUMO1 should be stored at 4 C between 2-7 days and aliquots of reconstituted samples are stable up to 3 months below -18 C for future use. Please avoid freeze-thaw cycles.

Official Symbol

SUMO1

GENE INFORMATION

Gene Name

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

Synonyms

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

Gene ID

7341

mRNA Refseq

NM_001005781

Protein Refseq

NP_001005781

MIM

601912

UniProt ID

P63165

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Chromosome Location	2q33
Function	protein binding
PDBrendering based on 1a5r.	