

Recombinant Human SUMO1 protein, His-tagged

Cat. No. SUMO1-7040H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human SUMO1 (Met1-Val101) protein was fused to His-tag at N-terminus and expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	Met1-Val101
Description	Small ubiquitin-related modifier 1 (SUMO1), a member of the ubiquitin family and SUMO subfamily, is also known as GAP-modifying protein 1 (GMP1), SMT3 homolog 3, ubiquitin-homology domain protein PIC1 and ubiquitin-like protein UBL1, which contains one ubiquitin-like domain. Cleavage of precursor form by SENP1 or SENP2 is necessary for the function of SUMO1. Polymeric SUMO1 chains undergo polyubiquitination by RNF4. SUMO1 may also regulate a network of genes involved in palate development. SUMO1 plays an important role in modulation of NOX activity required for ROS generation.
Predicted N Terminal	Met1
Form	Lyophilized from 0.22 µm filtered solution in 50 mM Tris, 150 mM NaCl, pH8.0, 10% trehalose.
Molecular Mass	The protein has a calculated MW of 12.4 kDa. The protein migrates as 20 kDa under reducing (R) condition (SDS-PAGE).

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Endotoxin	Less than 1.0 EU per µg by the LAL method.
Purity	>95% as determined by SDS-PAGE.
Storage	For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles. This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name	SUMO1
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

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MIM	601912
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UniProt ID	P63165
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