

# Recombinant human SUMO1 protein

Catalog Number: ATGP1293

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-101aa

### UniProt No.

P63165

### NCBI Accession No.

NP\_003343

### Alternative Names

small ubiquitin-related modifier 1, DAP-1, GMP1, OFC10, PIC1, SENP2, SMT3,SMT3C, SMT3H3, SuMO-1, uBL1

## PRODUCT SPECIFICATION

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### Molecular Weight

12.6 kDa (109aa) confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher)

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 1mM DTT, 0.15M NaCl

### Purity

> 90% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

SuMO1, also known as small ubiquitin-related modifier 1, is a member of the SuMO protein family and functions in a manner similar to ubiquitin. However, unlike ubiquitin which targets proteins for degradation, SuMO1 protein participates in a number of cellular processes, such as nuclear transport, transcriptional regulation, apoptosis, and protein stability. Recombinant human SuMO1 protein, fused to His-tag at C-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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### Amino acid Sequence

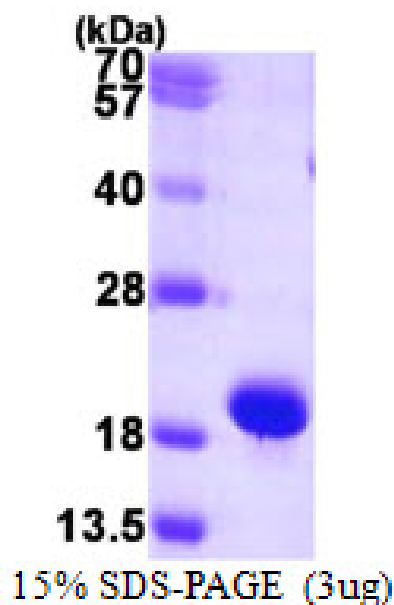
MSDQEAKPST EDLGDKKEGE YIKLKVIGQD SSEIHFVKVM TTHLKLLKES YCQRQGVPMN SLRFLFEGQR IADNHTPKEL  
GMEEEDVIEV YQEQTGGHST VLEHHHHHH

### General References

Evdokimov E., et al. (2008) J Cell Sci. 121:4106-13.  
Hecker CM., et al. (2006) J Biol Chem. 281(23):16117-27.

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.