

Recombinant Human SUMO1

Cat. No. SUM01-12H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

The active human SUMO-I (the 1-97 amino acid region of the Ubiquitin-like protein SMT3C precursor is also called Ubiquitin-homology domain protein PIC1, Ubiquitin-like protein UBL1, Ubiquitin-related protein SUMO-I, GAP modifying protein-I, GMP-I, and Sentrin-I. The enzyme contains a single polypeptide band of 11 kDa. The predicted molecular weight of hSOMO I is 11 KDa. The The final fraction of enzyme contains single polypeptide band of approximately 20 kDa on SDS PAGE.

Species Human

Source E.coli

Description

This gene encodes a protein that is a member of the SUMO (small ubiquitin-like modifier) protein family. It functions in a manner similar to ubiquitin in that it is bound to target proteins as part of a post-translational modification system. However, unlike ubiquitin which targets proteins for degradation, this protein is involved in a variety of cellular processes, such as nuclear transport, transcriptional regulation, apoptosis, and protein stability. It is not active until the last four amino acids of the carboxy-terminus have been cleaved off. Several pseudogenes have been reported for this gene. Alternate transcriptional splice variants encoding different isoforms have been characterized.

Physical Appearance Sterile Filtered clear solution at a concentration of 0.5mg/ml

Purity Greater than 98.0% as determined by: (a) Analysis by RP-HPLC. (b) Anion-exchange

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FPLC. (c) Analysis by reducing and non-reducing SDS-PAGE Silver Stained gel.

Formulation

10mM sodium chloride, 100mM imidazole, 0.5mM PMSF, 1mM DTT and 10% glycerol.

Stability

rHuSUMO-I although stable at 14°C for 1 week, should be stored desiccated below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

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

Chromosome

2q33

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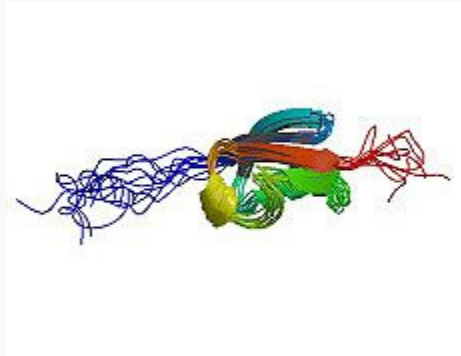
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Location

Function

protein binding

PDBrendering based
on 1a5r.



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