www.neobiolab.com
info@neobiolab.com
888.754.5670, +1 617.500.7103 United States
0800.088.5164, +44 020.8123.1558 United Kingdom

# SUMO1 Human

**Catalog #:**PRPS-333

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**Description:**The active human SUMO-I (the 1-97 animo acid region of the Ubiquitin-like protein SMT3C precursor). 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.

**Synonyms:**Small ubiquitin-related modifier 1, SUMO-1, Sentrin, Ubiquitin-like protein SMT3C, SMT3 homolog 3, Ubiquitin-homology domain protein PIC1, Ubiquitin-like protein UBL1, GAP-modifying protein 1, GMP1, SUMO1, SMT3C, SMT3H3, UBL1, PIC1, SMT3, DAP-1, OFC10, SE

**Source:**Escherichia Coli.

**Physical Appearance:**Sterile Filtered clear solution.

**Purity:**Greater than 98.0% as determined by(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.

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

**Stability:**
SUMO1 althoμgh stable at 4°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.

**Usage:**
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**Introduction:**
SUMO1 is a protein that belongs to the SUMO (small ubiquitin-like modifier) protein family. SUMO1 functions in a manner similar to ubiquitin in that it is bound to target proteins as part of a post-translational modification system. Still, unlike ubiquitin which targets proteins for degradation, SUMO1 is involved in a variety of cellular processes, for example nuclear transport, transcriptional regulation, apoptosis, and protein stability. SUMO1 is not active until the last four amino acids of the carboxy-terminus are cleaved off.

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