

## 32-5006: Recombinant Human Small Ubiquitin-Related Modifier 1

**Alternative Name :**

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, OFC1

### Description

Source : Escherichia Coli. The active human SUMO-I (the 1-97 amino acid region of the Ubiquitin-like protein SMT3C precursor). The enzyme contains a single polypeptide band of 11 kDa. The predicted molecular weight of hSUMO I is 11 kDa. The final fraction of enzyme contains single polypeptide band of approximately 20 kDa on SDS PAGE. 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.

### Product Info

**Amount :** 50 µg  
**Purification :** Greater than 98.0% as determined by (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.  
**Content :** 10mM sodium chloride, 100mM imidazole, 0.5mM PMSF, 1mM DTT and 10% glycerol.  
**Storage condition :** Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

