
Product Data Sheet

Product Name: SUMO1 Human
Cat. No.: GP24750
Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
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; SENP2.		
Formulation	10mM sodium chloride, 100mM imidazole, 0.5mM PMSF, 1mM DTT and 10% glycerol.		

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.

Stability

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.

Background

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 hSOMO I is 11 kDa. The The final fraction of enzyme contains single polypeptide band of approximately 20 kDa on SDS PAGE.

Caution: Product has not been fully validated for medical applications. For research use only.

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