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## Product Data Sheet

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Product Name: SUMO1 Human His  
 Cat. No.: GP24751  
 Batch No.: 1

### Product Data

Purity	>98%	Source	E.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.		
Amino Acid Sequence	MSDQEAKPST EDLGDKKEGE YIKLKVIGQD SSEIHFVKVM TTHLKCLKES YCQRQGVPMN SLRFLFEGQR IADNHTPKEL GMEEEDVIEV YQEQTGGHST VLEHHHHHHH		
Formulation	The SUMO1 solution (1mg/1ml) contains 20mM Tris-HCl buffer (pH 8.0), 1mM DTT, 0.15M NaCl 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

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

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SUMO1 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 109 amino acids (1-101) and having a molecular mass of 12.6 kDa. SUMO1 is fused to a 8 amino acid His-tag at C-terminus & purified by proprietary chromatographic techniques.

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