

Recombinant Human SUMO2

Cat. No. SUM02-13H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human SUMO2 produced in E.Coli is a single, non-glycosylated polypeptide chain containing 95 amino acids and having a molecular mass of 11 kDa. The SUMO-2 is purified by proprietary chromatographic techniques.
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Species	Human
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Source	E.coli
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Description	Small Ubiquitin-like Modifiers (SUMOs) are a family of small, related proteins that can be enzymatically attached to a target protein by a post-translational modification process termed sumoylation. Unlike ubiquitination, which targets proteins for degradation, sumoylation participates in a number of cellular processes, such as nuclear transport, transcriptional regulation, apoptosis, and protein stability. All SUMO proteins share the conserved ubiquitin domain and the C-terminal diglycine cleavage/attachment site. Human SUMO2, also known as Sentrin2 and SMT3B is synthesized as a 95 amino acid (aa), 11 kDa propeptide that contains a two aa C-terminal prosegment, and an 18 aa N-terminal protein interacting region (aa 33 -50). Following prosegment cleavage, the C-terminal glycine is enzymatically attached to a lysine on a target protein. Human SUMO2 shares 100% sequence identity to SUMO-2 from mouse. SUMO2 also has very high sequence homology to SUMO3 and SUMO4, 86 % and 85%, respectively. SUMO2 shares only 44% sequence identity to SUMO1.
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Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
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 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Purity	Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Formulation	The SUMO2 was lyophilized from 1X PBS, pH 7.4.
Stability	Lyophilized SUMO2 although stable 10°C for 1 week, should be stored desiccated below -18°C. Please prevent freeze-thaw cycles.

GENE INFORMATION

Gene Name	SUMO2 SMT3 suppressor of mif two 3 homolog 2 (<i>S. cerevisiae</i>) [<i>Homo sapiens</i>]
Synonyms	SUMO-2; Ubiquitin-like protein SMT3B, SMT3 homolog 2; Sentrin-2; HSMT3; SUMO-3; Sentrin2; SUMO2; SMT3H2; MGC117191; SMT3 suppressor of mif two 3 homolog 2; sentrin 2; small ubiquitin-like modifier 2, isoform a, SMT3B; SUMO-3; SMT3 (suppressor of mif two 3, yeast) homolog 2; SMT3 suppressor of mif two 3 homolog 2 (<i>S. cerevisiae</i>); SMT3 suppressor of mif two 3 homolog 2 (yeast); Ubiquitin-like protein SMT3B; sentrin 2.
Gene ID	6613
mRNA Refseq	NM_001005849
Protein Refseq	NP_001005849
MIM	603042
UniProt ID	P61956
Chromosome Location	17q25.1

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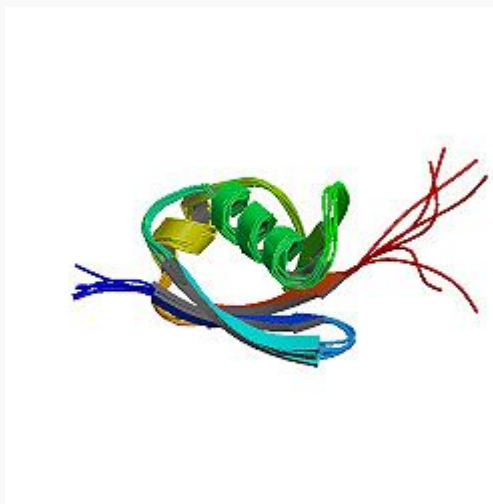
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Function

protein binding

PDB rendering based
on 1u4a.



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