

SUMO2

Recombinant Human Small Ubiquitin-related Modifier 2

Catalog No.	CSI20148A CSI20148B CSI20148C	Quantity:	10 µg 50 µg 1.0 mg
Alternate Names:	Small ubiquitin-related modifier 2, SUMO-2, Ubiquitin-like protein SMT3B, SMT3 homolog 2, Sentrin-2, HSMT3, SUMO-3, SUMO2, SMT3B, SMT3H2		
Description:	<p>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.</p> <p>The SUMO-2 is purified by proprietary chromatographic techniques.</p>		
Gene ID:	6613		
Source:	<i>E. coli</i>		
Molecular Mass:	10.6 kDa		
Formulation:	Sterile filtered colorless solution containing 20 mM Tris-HCl buffer, pH 8.0.		
Purity:	>95% by SDS-PAGE and HPLC analyses.		
Amino Acid Sequence:	MADEKPKEGV KTENNDHINL KVAGQDGSVV QFKIKRHTPL SKLMKAYCER QGLSMRQIRF RFDGQPINET DTPAQLEMED EDTIDVFQQQ TGG		
Storage & Stability:	Stable at 2-4°C for one week, but should be stored dessicated at -20°C to -80°C if not reconstituted upon arrival. Reconstituted protein should be aliquoted and stored at -20°C to -80°C. Avoid repeated freeze-thaw cycles.		

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