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## 32-5008: Recombinant Human Small Ubiquitin-Related Modifier 2

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| **Alternative Name :** | Small ubiquitin-related modifier 2,SUMO-2,Ubiquitin-like protein SMT3B,SMT3 homolog 2,Sentrin-2,HSMT3,SUMO-3,SUMO2,SMT3B,SMT3H2,MGC117191. |

## Description

Source : Escherichia Coli. SUMO2 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 93 amino acids and having a molecular mass of 10.6 kDa.The SUMO-2 is purified by proprietary chromatographic techniques. 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.

## Product Info

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| **Amount :** | 50 µg |
| **Purification :** | Greater than 95.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE. |
| **Content :** | The SUMO2 containing 20 mM Tris-HCl buffer (pH 8.0) |
| **Storage condition :** | Can be stored at +4C for 1 week. For long term storage , below -20C. Please prevent freeze-thaw cycles. |
| **Amino Acid :** | MADEKPKEGVKTENNDHINLKVAGQDGSVVQFKIKRHTPLSKLMKAYCERQGLSMRQIRFRFDGQPINETDTP AQLEMEDEDTIDVFQQQTGG. |