



## Product Datasheet

<b>Product Name</b>	Small Ubiquitin-Related Modifier 2 Human Recombinant
<b>Cata No</b>	CB501153
<b>Source</b>	<i>Escherichia Coli.</i>
<b>Synonyms</b>	Small ubiquitin-related modifier 2, SUMO-2, Ubiquitin-like protein SMT3B, SMT3 homolog 2, Sentrin-2, HSMT3, SUMO-3, SUMO2, SMT3B, SMT3H2, MGC117191.

### Description

SUMO2 is a member of the SUMO (small ubiquitin-like modifier) protein family. SUMO2 also known as SUMO-3 is a novel ubiquitin-like protein that can be conjugated to other proteins in a manner analogous to ubiquitination. It is a 95 amino acid peptide that is 46% identical and 66% homologous to sentrin-1. Sentrin interacts with the death domains of Fas, TNFR1, PML, Rad51 and Rad52 which are involved in repairing dsDNA breaks, and with GAP1. SUMO2 function is similar to that of ubiquitin by being bound to target proteins as part of a post-translational modification system. SUMO2 is involved in a variety of cellular processes, for example nuclear transport, transcriptional regulation, apoptosis, and protein stability as opposed to ubiquitin which targets proteins for degradation. SUMO2 is not active until the last two amino acids of the carboxy-terminus have been cleaved off. SUMO2 Human Recombinant full length protein expressed in E.coli, shows a 36 kDa band on SDS-PAGE(including GST tag).

The SUMO2 is purified by proprietary chromatographic techniques.

### Physical Appearance

Sterile Filtered clear solution.

### Formulation

SUMO2 at 100µg/ml in 50mM Tris-Acetate, pH7.5, 1mM EDTA and 20% Glycerol.

### Stability

Store vial at -20°C to -80°C. When stored at the recommended temperature, this protein is stable for 12 months.

**Please prevent freeze-thaw cycles.**

### Applications

- ELISA
- Inhibition Assays
- Western Blotting