

# SUMO2 Small Ubiquitin-Related Modifier 2 Human Recombinant Protein

Catalog Number: PROTP61956-1

## Introduction

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.

## Overview

Product Name	SUMO2 Small Ubiquitin-Related Modifier 2 Human Recombinant Protein
Description	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.
Size	10ug, 50ug, 1mg
Tag	
Form	Sterile filtered colorless solution.
Source	E. Coli
Formulation	The SUMO2 (1mg/ml) containing 20mM Tris-HCl buffer (pH 8.0).

## Concentration

## Storage

Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.

## Purity

Greater than 95.0% as determined by SDS-PAGE.

## Amino Acid Sequence

MADEKPKEGVKTENNDHINLKVAGQDGSVVQFKIKRHTPLSKLMKAYCERQGLSMRQIRFRFDGQPINETDTPAQLEMEDEDTIDVFQQQTGG.

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## Usage

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