Product Data Sheet

Product Name:	SUMO2 Human
Cat. No.:	GP24752
Batch No.:	1

Product Data

Purity	>98%	Source	Escherichia Coli.
Phycical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Small ubiquitin-related modifier 2; SUMO-2; Ubiquitin-like protein SMT3B; SMT3 homolog 2; Sentrin-2; HSMT3; SUMO-3; SUMO2; SMT3B; SMT3H2; MGC117191.		
Amino Acid Sequence	MADEKPKEGVKTENNDHINLKVAGQDGSVVQFKIKRHTPLSKLMKAYCERQGLSMRQIRFRFDGQPINETDTPAQLEMEDEDTIDVFQQQTGG.		

FormulationThe SUMO2 (1mg/ml) containing 20mM Tris-HCl buffer (pH 8.0).

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.

Stability

Can be stored at +4C for 1 week. For long term storage , below -20C.Please prevent freeze-thaw cycles.

Background

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.

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