

## Recombinant Human SUMO2 (N-6His)

Catalog #	EPT277
Expression Host	E.coli
DESCRIPTION	Recombinant Human Small Ubiquitin-Related
	Modifier 2 is produced by our E.coli expression system
	and the target gene encoding Met1-Gly93 is
	expressed with a 6His tag at the N-terminus.
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Accession AAH08450.1

Small Ubiquitin-Related Modifier 2; SUMO-2; HSMT3; **Synonyms** SMT3 homolog 2; SUMO-3; Sentrin-2; Ubiquitin-Like

Protein SMT3A; Smt3A; SUMO2; SMT3A; SMT3H2

Mol Mass 13 KDa

**AP Mol Mass** 17 KDa, reducing conditions

Purity Greater than 95% as determined by reducing SDS-PAGE.

Endotoxin Less than 0.1 ng/ $\mu$ g (1 EU/ $\mu$ g) as determined by LAL test.

FORMULATION Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.



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RECONSTITUTION Always centrifuge tubes before opening.Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100µg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles. SHIPPING The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below. Lyophilized protein should be stored at < -20 ° C, STORAGE though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at  $< -20^{\circ}$ C for 3 months. BACKGROUND Small Ubiquitin-Related Modifier 2 (SUMO2) is an Ubiquitin-like protein that belongs to the ubiquitin family with SUMO subfamily. It is a family of small, related proteins that can be enzymatically attached to a target protein by a post-translational modification sumoylation. process termed SUMO2 be can



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covalently attached to proteins as a monomer or as a lysine-linked polymer. Covalent attachment via an isopeptidebond to its substrates requires prior activation by the E1 complex SAE1-SAE2 and linkage to the E2 enzyme UBE2I, and can be promoted by an E3 ligase such as PIAS1-4, RANBP2 or CBX4. This post-translational modification on lysine residues of proteins plays a crucial role in a number of cellular processes such as nuclear transport, DNA replication and repair, mitosis and signal transduction. Polymeric SUMO2 chains also susceptible are to polyubiquitination which functions as a signal for proteasomal degradation of modified proteins.



## **SDS-PAGE**



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