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## Datasheet for ABIN1097604 **SUMO2 Protein (AA 1-93) (His tag)**

### Overview

Quantity:	50 µg
Target:	SUMO2
Protein Characteristics:	AA 1-93
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SUMO2 protein is labelled with His tag.

### Product Details

Purpose:	Recombinant Human Small Ubiquitin-Related Modifier 2/SUMO2 (N-6His)
Sequence:	MGSSHHHHHH SSSLVPRGSH MADEKPKEGV KTENNNHINL KVAGQDGSVV QFKIKRHTPL SKLMKAYCER QGLSMRQIRF RFDGQPINET DTPAQLMED EDTIDVFRQQ TGGVY
Characteristics:	Recombinant Human Small Ubiquitin-Related Modifier 2/SUMO2 is produced by our E. coli expression system. The target protein is expressed with sequence (Met1-Gly93) of Human SUMO2.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

### Target Details

Target:	SUMO2
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## Target Details

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Alternative Name: [sumo2 \(SUMO2 Products\)](#)

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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 process termed sumoylation. SUMO2 can be covalently attached to proteins as a monomer or as a lysine-linked polymer. Covalent attachment via an isopeptide bond 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 are also susceptible to polyubiquitination which functions as a signal for proteasomal degradation of modified proteins.

Alternative Names: Small Ubiquitin-Related Modifier 2, SUMO-2, HSMT3, SMT3 homolog 2, SUMO-3, Sentrin-2, Ubiquitin-Like Protein SMT3A, Smt3A, SUMO2, SMT3A, SMT3H2

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Molecular Weight: 13 kDa

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UniProt: [P61956](#)

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Pathways: [Methionine Biosynthetic Process](#)

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## Application Details

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Restrictions: For Research Use only

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## Handling

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Format: Lyophilized

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Reconstitution: It is not recommended to reconstitute to a concentration less than 100 µg/mL.  
Dissolve the lyophilized protein in ddH<sub>2</sub>O.  
Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

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Buffer: Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.

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Handling Advice: Always centrifuge tubes before opening. Do not mix by vortex or pipetting.

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Storage: 4 °C/-20 °C/-80 °C

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Storage Comment: Lyophilized protein should be stored at < -20°C, 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°C for 3 months.

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## Handling

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Expiry Date: 3 months