

## SUMO3 Protein, Human, Recombinant (E.coli, His)

### General Information

Synonyms:	Ubiquitin-Like Protein SMT3B;SMT3H1;SUMO-3;Small Ubiquitin-Related Modifier 3;SUMO-2;SMT3 Homolog 1;Smt3B;SUMO3
Protein Construction:	Met1-Phe103
Species:	Human
Expression Host:	E. coli
Accession:	P55854
Molecular Weight:	19 KDa (reducing condition)
AA Sequence:	Met1-Phe103

### QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing 20 mM PB, 150 mM NaCl, pH 7.2.

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

SUMO3 belongs to the SUMO protein family and operates like ubiquitin. Ubiquitin-like protein which can be covalently attached to target lysines either as a monomer or as a lysine-linked polyer. Nevertheless unlike ubiquitin that targets proteins for degradation, SUMO3 takes part in several cellular processes, such as nuclear transport, transcription regulation, apoptosis and protein stability. SUMO3 participates in amyloid beta generation

and has a key role in the onset or progression of Alzheimer's disease.

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