

## Recombinant Human SUMO3, His-tagged

**Cat. No.** SUMO3-2849H    **Lot. No.** (See product label)

### SPECIFICATION

|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>         | Recombinant human SUMO3 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography. MW = 12.6 kDa (112aa) confirmed by MALDI-TOF (molecular size on SDS-PAGE will appear higher).                                                                                                                                                                                                                                             |
| <b>Species</b>                  | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Source</b>                   | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Description</b>              | SUMO3, also known as small ubiquitin-related modifier 3, is a member of the SUMO protein family and functions in a manner similar to ubiquitin. However, unlike ubiquitin which targets proteins for degradation, SUMO3 protein participates in a number of cellular processes, such as nuclear transport, transcriptional regulation, apoptosis, and protein stability. It regulates amyloid beta generation and may be critical in the onset or progression of Alzheimer's disease. |
| <b>Sequences Of Amino Acids</b> | MGSSHHHHHH SSGLVPRGSH MSEEKPKEGV KTENDHINLK VAGQDGSVVQ<br>FKIKRHTPLS KLMKAYCERQ GLSMRQIRFR FDGQPINETD TPAQLEMEDE<br>DTIDVFQQQT GG                                                                                                                                                                                                                                                                                                                                                     |
| <b>Purity</b>                   | > 95% by SDS – PAGE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Form</b>                     | Liquid. 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol 0.1M NaCl,1mM DTT.                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Concentration</b>            | 1.0 mg/ml (determined by BCA assay).                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

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**Storage**

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

**GENE INFORMATION**
**Gene Name**

SUMO3 SMT3 suppressor of mif two 3 homolog 3 (*S. cerevisiae*) [ *Homo sapiens* ]

**Synonyms**

SUMO3; SMT3 suppressor of mif two 3 homolog 3 (*S. cerevisiae*); SMT3A; SMT3H1; SUMO-3; small ubiquitin-related modifier 3; SUMO-2; SMT3 homolog 1; ubiquitin-like protein SMT3A; SMT3 suppressor of mif two 3 homolog 1; SMT3 (suppressor of mif two 3, yeast) homolog 1; SMT3 suppressor of mif two 3 homolog 3 (yeast)

**Gene ID**

6612

**mRNA Refseq**

NM\_006936

**Protein Refseq**

NP\_008867

**MIM**

602231

**UniProt ID**

P55854

**Chromosome  
Location**

21q22.3

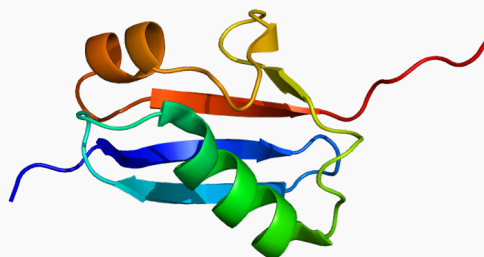
**Function**

protein binding

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