

## Active Recombinant Human SUMO2

Cat. No. SUMO2-587H    Lot. No. (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                              |
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| <b>Product Overview</b> | Recombinant Human SUMO2 (Accession # NM_006937) was produced in E. coli-derived.                                                                                                                                                                                                                                                                             |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                        |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                       |
| <b>Form</b>             | Supplied as a solution in HEPES, NaCl and DTT.                                                                                                                                                                                                                                                                                                               |
| <b>Bio-activity</b>     | Recombinant Human Pro-SUMO2 can be conjugated to substrate proteins via the subsequent actions of an SUMO-activating (E1) enzyme, an SUMO-conjugating (E2) enzyme, and an SUMO ligase (E3). Reaction conditions will need to be optimized for each specific application. We recommend an initial Recombinant Human Pro-SUMO2 concentration of 10-50 $\mu$ M. |
| <b>Purity</b>           | >95%, by SDS-PAGE under reducing conditions and visualized by Colloidal Coomassie® Blue stain.                                                                                                                                                                                                                                                               |
| <b>Storage</b>          | Avoid repeated freeze-thaw cycles. No activity loss was observed after storage at: In lyophilized state for 1 year (4°C); After reconstitution under sterile conditions for 3 months (-70°C).                                                                                                                                                                |

### GENE INFORMATION

|                  |                                                                                               |
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| <b>Gene Name</b> | SUMO2 SMT3 suppressor of mif two 3 homolog 2 ( <i>S. cerevisiae</i> ) [ <i>Homo sapiens</i> ] |
|------------------|-----------------------------------------------------------------------------------------------|

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|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Official Symbol</b>     | SUMO2                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Synonyms</b>            | SUMO2; SMT3 suppressor of mif two 3 homolog 2 (S. cerevisiae); SMT3 (suppressor of mif two 3, yeast) homolog 2 , SMT3 suppressor of mif two 3 homolog 2 (yeast) , SMT3H2; small ubiquitin-related modifier 2; SMT3B; sentrin 2; SMT3 homolog 2; ubiquitin-like protein SMT3A; ubiquitin-like protein SMT3B; small ubiquitin-like modifier 2; HSMT3; SUMO3; Smt3A; SMT3H2; MGC117191; |
| <b>Gene ID</b>             | 6613                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>mRNA Refseq</b>         | NM_001005849                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Protein Refseq</b>      | NP_001005849                                                                                                                                                                                                                                                                                                                                                                         |
| <b>MIM</b>                 | 603042                                                                                                                                                                                                                                                                                                                                                                               |
| <b>UniProt ID</b>          | P61956                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Chromosome Location</b> | 17q25                                                                                                                                                                                                                                                                                                                                                                                |

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