

## Recombinant Human SENP1, His-tagged

**Cat. No.** SENP1-687H    **Lot. No.** (See product label)

### SPECIFICATION

|                            |                                                                                                                                                                                                                                                                                                                                                                                                         |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>    | Recombinant, human SENP1 consisting of aminoacids 419-643 fused at the N-terminus to a His Tag and expressed in E.coli.                                                                                                                                                                                                                                                                                 |
| <b>Species</b>             | Human                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Source</b>              | E.coli                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>ProteinLength</b>       | 419-643 a.a.                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Description</b>         | SENP1, a nuclear SUMO protease, regulates androgen receptor transactivation by targeting histone deacetylase 1 and c-Jun activity through deSUMOylation of p300. Recent data shows SENP1 is required for HIF-dependent transcription during embryogenesis and in response to hypoxia. The protease is useful in the study of SENP1 endopeptidase and isopeptidase activity and for inhibitor screening. |
| <b>Formulation</b>         | In 50 mM HEPES, 5% glycerol pH 7.4.                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Biological activity</b> | EC <sub>50</sub> : ≥1.42 nM as determined using proSUMO-1 substrate in an endopeptidase assay.                                                                                                                                                                                                                                                                                                          |
| <b>Purity</b>              | ≥90% by SDS-PAGE                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Applications</b>        | Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein); Antibody Production; Protein Array                                                                                                                                                                                                                                                                                             |
| <b>Storage buffer</b>      | 50mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.                                                                                                                                                                                                                                                                                                                                 |

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**Storage** ≤-70°C

## GENE INFORMATION

**Gene Name** SENP1SUMO1/sentrin specific peptidase 1 [ Homo sapiens ]

**Official Symbol** SENP1

**Synonyms** SENP1; SUMO1/sentrin specific peptidase 1; SuPr-2;sentrin-specific protease 1; SUMO1/sentrin specific protease 1;sentrin/SUMO-specific protease SENP1

**Gene ID** 29843

**mRNA Refseq** NM\_014554

**Protein Refseq** NP\_055369

**MIM** 612157

**UniProt ID** Q9P0U3

**Chromosome Location** 12q13.1

**Pathway** Androgen Receptor Signaling Pathway; Regulation of Androgen receptor activity

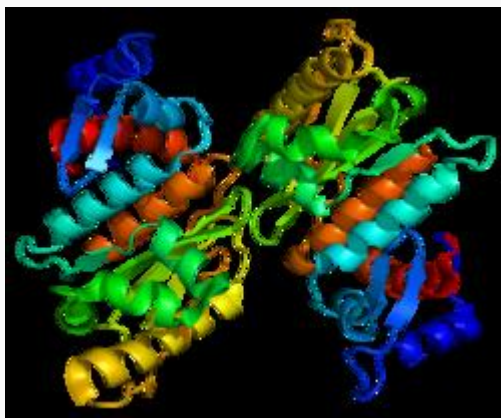
**Function** cysteine-type peptidase activity; endopeptidase activity; peptidase activity

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