

**Product Name:** SENP1

**Alternate Names:**

**Product Code:** TDE-069

**Quantity:** 50 µg

**FOR RESEARCH USE ONLY (RUO)**

**Storage:**

Use a manual defrost freezer and avoid repeated freeze-thaw cycles. Aliquot and store ≤ -70°C (stable for 24 months from date of receipt).

### **Verified Applications / Usage**

Recombinant human Sentrin-specific protease 1 removes SUMO modifications from proteins in *in vitro* reactions. This is particularly useful in cleaving SUMO tags from recombinant proteins. Appropriate enzyme concentrations are specific to the application.

### **Physical Characteristics**

**Species:** Homo sapiens (Human)

**Predicted MW (kDa):** 28 kDa

**Source:** *E.coli* BL21(DE3) A.I.

**Purity:** 95%

**Concentration:** 50-60 µM

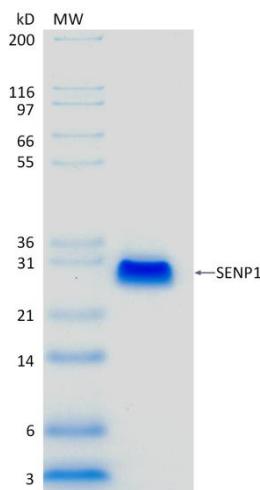
**Formulation:** 40 mM HEPES, 100 mM NaCl, 10% Glycerol, 1 mM EDTA, 1 mM TCEP, pH 7.6

**Shipping:** The product is shipped with dry ice. Upon receipt, store it immediately at the temperature recommended below.

**Stability/Storage:** Use a manual defrost freezer and avoid repeated freeze-thaw cycles. Aliquot and store ≤ -70°C (stable for 24 months from date of receipt).

## Quality Assurance

### Purity & SDS-PAGE



2 µg SENP1 run on 4-12% SDS-PAGE gel under reducing conditions, then visualized with Colloidal Coomassie Blue Stain.

**Protein ID:** Sentrin-specific protease 1

### Activity Assay

100 nM SENP1 will cleave 50 µg SUMOylated test protein in 2 hours at 4°C.

## Background

### Description

Recombinant human SENP1 (H411-L644) is a SUMO-specific protease that is useful for deSUMOylating proteins in vitro.

**Accession Number:** Q9P0U3

**Entrez Gene ID:** SENP1

## Protein Sequence

GPGHKLTDSEDEFPEITEEMEKEIKNVFRNGNQDEVLSEAFRLTIRKDI  
QLTNHLNWLNDEIINFYMNMLMERSKEKGLPSVHAFNTFFFTKLKTAGY  
QAVKRWTKKVDVFSVDILLVPIHLGVHWCLAVVDFRKKNITYDSMGGIN  
NEACRILLQYLKQESIDKKRKEFDTNGWQLFSKKSQEIPQQMNGSDCG  
MFACKYADCITKDRPINFTQQHMPYFRKRMVWEILHRKLL