

## Recombinant Human SENP7 Protein

**Catalog Number:** PKSH033027

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

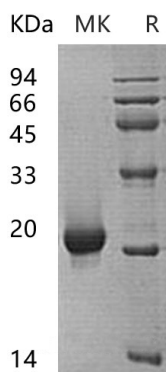
### Description

<b>Species</b>	Human
<b>Source</b>	E.coli-derived Human SENP7 protein Met695-Ala864
<b>Calculated MW</b>	19.8 kDa
<b>Observed MW</b>	22 kDa
<b>Accession</b>	Q9BQF6
<b>Bio-activity</b>	Not validated for activity

### Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Concentration</b>	Subject to label value.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
<b>Shipping</b>	This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < -20°C.
<b>Formulation</b>	Supplied as a 0.2 µm filtered solution of 20mM HEPES, 5% Glycerol, pH 7.4.

### Data



> 95 % as determined by reducing SDS-PAGE.

### Background

Sentrin-Specific Protease 7 (SENP7) acts as a SUMO-2/3-specific protease. SENP7 is likely to regulate the metabolism of poly-SUMO-2/3 rather than SUMO-1 conjugation in vivo. SENP7 has a restricted substrate specificity, and displaying paralogue-specific isopeptidase activity. The C-terminal catalytic domain of SENP7 depolymerized poly-SUMO-2 chains but does not have activity against poly-SUMO-1 chains. SENP7 also had isopeptidase activity against di-SUMO-2- and SUMO-2-modified RanGAP1 (Ran GTPase-activating protein 1) but had limited activity against SUMO-1-modified RanGAP1.