

## SEN7 Protein, Human, Recombinant

### General Information

Synonyms:	SSP2;KIAA1707;Sentrin-Specific Protease 7;SUSP2;SUMO-1-Specific Protease 2;SEN7; Sentrin/SUMO-Specific Protease SEN7
Protein Construction:	Met695-Ala864
Species:	Human
Expression Host:	E. coli
Accession:	Q9BQF6
Molecular Weight:	22 KDa (reducing condition)
AA Sequence:	Met695-Ala864

### QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Supplied as a 0.2 μm filtered solution of 20 mM HEPES, 5% Glycerol, pH 7.4.

### Preparation and Storage

#### Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

Proteins are shipped with blue ice.

### Protein Background

Sentrin-Specific Protease 7 (SEN7) acts as a SUMO-2/3-specific protease. SEN7 is likely to regulate the metabolism of poly-SUMO-2/3 rather than SUMO-1 conjugation in vivo. SEN7 has a restricted substrate specificity, and displaying paralogue-specific isopeptidase activity. The C-terminal catalytic domain of SEN7 depolymerized poly-SUMO-2 chains but does not have activity against poly-SUMO-1 chains. SEN7 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.

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