



Recombinant Protein Technical Manual

Recombinant Human SENP7 Protein (His Tag)

RPES4425

Product Data:

Product SKU: RPES4425

Size: 10µg

Species: Human

Expression host: E. coli

Uniprot: Q9BQF6

Protein Information:

Molecular Mass: 27.3 kDa

AP Molecular Mass: 25 kDa

Tag: N-6His

Bio-activity:

Purity: > 95 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

Shipping: 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.

Formulation: Supplied as a 0.2 µm filtered solution of 20mM HEPES, 5% Glycerol, pH 7.4.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Sentrin-Specific Protease 7; SUMO-Specific Protease 2; Sentrin/SUMO-Specific Protease SENP7; SENP7; KIAA1707; SSP2; SUSP2

Immunogen Information:

Sequence: Met695-Ala864

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 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 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-modified RanGAP1.