

## SENP5 Protein, Human

Cat. No.:	HY-P701470
Synonyms:	SENP5; Sentrin-specific protease 5; Sentrin/SUMO-specific protease SENP5
Species:	Human
Source:	E. coli
Accession:	Q96HI0 (D536-D755)
Gene ID:	205564
Molecular Weight:	

### PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.22 µm filtered solution of 50 mM Tris-HCl, pH7.5, 200 mM NaCl, 20% glycerol.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	Please use rapid thawing with running water to thaw the protein.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

### DESCRIPTION

Background	SENP5 protein plays a pivotal role in the SUMO pathway, executing two crucial functions necessary for the regulation of SUMOylation dynamics. Firstly, it facilitates the processing of full-length SUMO3 to its mature form, contributing to the maturation of this small ubiquitin-like modifier. Additionally, SENP5 is actively involved in the deconjugation process, targeting SUMO2 and SUMO3 for removal from modified proteins. Although it exhibits weak proteolytic activity against full-length SUMO1 or SUMO1 conjugates, SENP5's primary impact is on SUMO3-related processes. Its indispensable role in cell division further underscores its significance in fundamental cellular functions. Notably, SENP5 interacts with CCAR2, indicating potential regulatory associations in cellular processes influenced by SUMOylation.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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