

# Product Data Sheet

# Inhibitors • Screening Libraries • Proteins

# USP19 Protein, Human (His)

Cat. No.:	HY-P701414
Synonyms:	USP19; Ubiquitin carboxyl-terminal hydrolase 19; Deubiquitinating enzyme 19; Ubiquitin thioesterase 19; Ubiquitin-specific-processing protease 19; Zinc finger MYND domain-containing protein 9
Species:	Human
Source:	E. coli
Accession:	O94966 (E904-R1318)
Gene ID:	10869
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.
Reconsititution	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

BackgroundThe USP19 protein functions as a pivotal deubiquitinating enzyme, intricately regulating the degradation of diverse pra and influencing various cellular processes. Notably, it deubiquitinates and shields RNF123 from proteasomal degradat leading to the stimulation of CDKN1B ubiquitin-dependent degradation and contributing to cell proliferation. USP19 is implicated in decreased protein synthesis in atrophying skeletal muscle and modulates the transcription of major myofibrillar proteins. Additionally, it plays a crucial role in the turnover of endoplasmic-reticulum-associated degradati (ERAD) substrates and regulates the stability of BIRC2/c-IAP1 and BIRC3/c-IAP2 by preventing their ubiquitination. In the context of cellular response to hypoxia, USP19 is required for mounting an appropriate response and rescues HIF1A fro degradation in a non-catalytic manner. Moreover, it plays a significant role in 17 beta-estradiol (E2)-inhibited myogene acting to repress myogenesis and decreasing the levels of ubiquitinated proteins during skeletal muscle formation. US exhibits a notable preference for 'Lys-63'-linked ubiquitin chains, highlighting its selectivity in substrate recognition ar modulation of cellular pathways.	ation, is ation the rom nesis, SP19
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### Caution: Product has not been fully validated for medical applications. For research use only.

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