

USP47 Protein, Human (Sf9, FLAG)

Cat. No.:	HY-P701421
Synonyms:	USP47; Ubiquitin carboxyl-terminal hydrolase 47; Deubiquitinating enzyme 47; Ubiquitin thioesterase 47; Ubiquitin-specific-processing protease 47
Species:	Human
Source:	Sf9 insect cells
Accession:	Q96K76 (V2-D1375)
Gene ID:	55031
Molecular Weight:	Approximately 158.3 kDa

PROPERTIES

Biological Activity	The fundamental role of USP47 is specific removal of ubiquitin from substrates. USP47 catalyses the ubiquitin from the substrate Ub-Rho110 to release fluorophores. Rho110 will release 535 nM emission ligat under the excitation condition of 485 nM. The signal of which canbe quickly and reliably captured using a microplate reader.
Appearance	Solution
Formulation	Supplied as a 0.22 µm filtered solution of 50 mM HEPES, 200 mM NaCl, 20% glycerol, pH 7.5, 1 mM DTT.
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	USP47 protein functions as a ubiquitin-specific protease with a specific role in the deubiquitination of monoubiquitinated DNA polymerase beta (POLB), thereby stabilizing POLB and contributing to the regulation of base-excision repair (BER). Beyond its role in DNA repair, USP47 emerges as a key regulator of cell growth and genome integrity. Additionally, it may exert its influence on cellular processes by indirectly modulating CDC25A expression at the transcriptional level, underscoring its multifaceted role in cellular homeostasis and genomic stability.
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Caution: Product has not been fully validated for medical applications. For research use only.

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