

USP48 Protein, Human (Sf9, FLAG)

Cat. No.:	HY-P701422
Synonyms:	USP48; Ubiquitin carboxyl-terminal hydrolase 48; Deubiquitinating enzyme 48; Ubiquitin thioesterase 48; Ubiquitin-specific peptidase 48; Ubiquitin-specific protease 48; Ubiquitin-specific-processing protease 48
Species:	Human
Source:	Sf9 insect cells
Accession:	Q86UV5 (A2-H1035)
Gene ID:	84196
Molecular Weight:	Approximately 120 kDa

PROPERTIES

Biological Activity	The fundamental role of USP48 is specific removal of ubiquitin from substrates. USP48 catalyses the ubiquitin from the substrate Ub-Rho110 to release fluorophores. Rho110 will release 535 nM emission light under the excitation condition of 485 nM. The signal of which can be quickly and reliably captured using a microplate reader.
Appearance	Solution
Formulation	Supplied as a 0.22 µm filtered solution of 50 mM HEPES, pH7.5, 200 mM NaCl, 20% glycerol, 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	The USP48 protein functions as a deubiquitinase, specifically recognizing and hydrolyzing the peptide bond at the C-terminal Gly of ubiquitin. It is implicated in the processing of both poly-ubiquitin precursors and ubiquitinated proteins. Additionally, USP48 may play a role in regulating NF-kappa-B activation by the TNF receptor superfamily through interactions with RELA and TRAF2. Furthermore, it is suggested to have a potential regulatory function at postsynaptic sites. These diverse activities highlight the multifunctional nature of USP48 in cellular processes, encompassing ubiquitin processing and modulation of signaling pathways implicated in immune response and synaptic function.
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Caution: Product has not been fully validated for medical applications. For research use only.

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