

USP6 Protein, Human (Sf9, GST)

Cat. No.:	HY-P701429
Synonyms:	USP6; Ubiquitin carboxyl-terminal hydrolase 6; Deubiquitinating enzyme 6; Proto-oncogene TRE-2; Ubiquitin thioesterase 6; Ubiquitin-specific-processing protease 6
Species:	Human
Source:	Sf9 insect cells
Accession:	P35125 (K529-Q1406)
Gene ID:	9098
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	USP6, an ATP-independent isopeptidase, possesses distinctive deubiquitinase activity, cleaving at the C-terminus of the ubiquitin moiety and catalyzing its own deubiquitination. In vitro, isoform 2 exhibits deubiquitinating activity, contrasting with isoform 3. Notably, USP6 plays a crucial role in orchestrating plasma membrane localization of ARF6 and selectively modulating ARF6-dependent endocytic protein trafficking. Its functional significance extends to tumorigenesis initiation, as it induces the production of matrix metalloproteinases through NF-kappa-B activation. USP6's multifaceted activity highlights its pivotal role in cellular processes, positioning it as a key player in protein regulation, membrane dynamics, and the intricate balance involved in tumorigenesis.
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Caution: Product has not been fully validated for medical applications. For research use only.

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