USP25 Protein, Human (His)

Cat. No.:	HY-P701445
Synonyms:	USP25; Ubiquitin carboxyl-terminal hydrolase 25; Deubiquitinating enzyme 25; USP on chromosome 21; Ubiquitin thioesterase 25; Ubiquitin-specific-processing protease 25
Species:	Human
Source:	E. coli
Accession:	Q9UHP3 (T2-R1055)
Gene ID:	29761
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

Background	Ubiquitin-specific protease 25 (USP25) is a deubiquitinating enzyme with the capacity to hydrolyze ubiquitin moieties conjugated to substrates, thereby participating in the processing of newly synthesized ubiquitin, recycling ubiquitin molecules, and editing polyubiquitin chains. USP25 plays a crucial role in preventing the proteasomal degradation of substrates by cleaving ubiquitin chains. Notably, it exhibits hydrolytic activity towards both 'Lys-48'- and 'Lys-63'-linked tetraubiquitin chains, showcasing its versatility in targeting different ubiquitin linkage types. Additionally, a muscle-specific isoform of USP25, known as USP25m, is suggested to play a role in the regulation of muscular differentiation and function, indicating its potential significance in specific cellular contexts.

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