Active Recombinant Full Length Human USP21 Protein

Cat. No. USP21-01HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	USP21 Protein, Human is the recombinant human-derived USP21 protein, expressed by E. coli
Species	Human
Source	E.coli
ProteinLength	2-565 aa
Description	This gene encodes a member of the C19 peptidase family, also known as family 2 of ubiquitin carboxy-terminal hydrolases. The encoded protein cleaves ubiquitin from ubiquitinated proteins for recycling in intracellular protein degradation. The encoded protein is also able to release NEDD8, a ubiquitin-like protein, from NEDD8-conjugated proteins. This gene has been referred to as USP16 and USP23 but is now known as USP21. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.
Form	Solution. Supplied as a 0.22 μm filtered solution of 50 mM Tris-HCl, pH7.5, 200 mM NaCl, 20% glycerol.
Bio-activity	The fundamental role of USP21 is specific removal of ubiquitin from substrates. USP21 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.

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Molecular Mass	62.9 kDa
Endotoxin	<1 EU/μg, determined by LAL method.
Purity	Greater than 90 % as determined by reducing SDS-PAGE.
Storage	Stored at -80 centigrade for 1 year from date of receipt. It is stable at -20 centigrade for 3 months after opening. It is recommended to freeze aliquots at -80 centigrade for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.
Reconstitution	Please use rapid thawing with running water to thaw the protein.

GENE INFORMATION

Gene Name	USP21 ubiquitin specific peptidase 21 [Homo sapiens (human)]
Official Symbol	USP21
Synonyms	USP21; ubiquitin specific peptidase 21; USP16; USP23; ubiquitin carboxyl-terminal hydrolase 21; NEDD8-specific protease; deubiquitinating enzyme 21; ubiquitin specific protease 21; ubiquitin thioesterase 21; ubiquitin thiolesterase 21; ubiquitin-specific processing protease 21; ubiquitin-specific protease 16; EC 3.4.19.12
Gene ID	27005
mRNA Refseq	NM_012475
Protein Refseq	NP_036607

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MIM	604729
UniProt ID	Q9UK80

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