

## USP53 Protein, Human (His, GST)

Cat. No.:	HY-P701427
Synonyms:	USP53; Inactive ubiquitin carboxyl-terminal hydrolase 53; Inactive ubiquitin-specific peptidase 53
Species:	Human
Source:	E. coli
Accession:	Q70EK8 (K30-P351)
Gene ID:	54532
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	USP53 protein, a crucial component in tight junctions, plays a vital role in the survival of auditory hair cells and the maintenance of hearing function, potentially through the modulation of tight junction barrier properties and mechanical stability. Despite lacking peptidase activity, USP53's significance in auditory function is underscored by its interaction, mediated by the C-terminal region, with the heterodimer TJP1:TJP2. This interaction suggests a nuanced involvement in the intricate molecular architecture of tight junctions, emphasizing its potential impact on cellular survival and auditory processes.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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