

## USP6 Protein, Human, Recombinant (His & KSI)

### General Information

Synonyms:	Proto-oncogene TRE-2;TRE2;HRP1;Ubiquitin-specific-processing protease 6;Deubiquitinating enzyme 6;Ubiquitin thioesterase 6;Ubiquitin carboxyl-terminal hydrolase 6;USP6;RN-tre
Protein Construction:	348-535 aa
Species:	Human
Expression Host:	E. coli
Accession:	P35125
Molecular Weight:	36.0 kDa (predicted)
AA Sequence:	KLTRKQGDLPPPAAKREQGSLAPRPVPASRGGKTLCKGYRQAPPGPPAQFQRPICSASPPWASRFSTPCPGGA VREDTYPVGTQGVPSLALAQGGPQGSWRFLEWKSMPLPTDLDIGGPWFPHYDFEWSCWVRAISQEDQLA TCWQAEHCGEVHNKDMSWPEEMSFTANSSKIDRQKVPTEKGATGLS

### QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 85% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

#### Shipping:

In general, Lyophilized powders are shipping with blue ice. Solutions are shipping with dry ice.

### Protein Background

Deubiquitinase with an ATP-independent isopeptidase activity, cleaving at the C-terminus of the ubiquitin moiety. Catalyzes its own deubiquitination. In vitro, isoform 2, but not isoform 3, shows deubiquitinating activity. Promotes

plasma membrane localization of ARF6 and selectively regulates ARF6-dependent endocytic protein trafficking. Is able to initiate tumorigenesis by inducing the production of matrix metalloproteinases following NF-kappa-B activation.

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