

## TXNRD2 Protein, Human, Recombinant (U523S, His & SUMO)

### General Information

Synonyms:	TXNRD2;Thioredoxin reductase TR3;Selenoprotein Z (SelZ);KIAA1652;Thioredoxin reductase 2, mitochondrial;TR-beta;mitochondrial;TRXR2
Protein Construction:	37-524 aa (U523S)
Species:	Human
Expression Host:	E. coli
Accession:	Q9NNW7
Molecular Weight:	68.9 kDa (predicted)
AA Sequence:	QRDYDLLVGGGSGGLACAKEAAQLGRKVVAVVDYVEPSPQGTRWGLGGTCVNVGCIPKKLMHQAALLGGLI QDAPNYGWEVAQPVPDWRKMAEAVQNHVKSLNWGHRVQLQDRKVYFNIKASFVDEHTVCGVAKGGK EILLSADHIIIATGGRPRYPHTHIEGALEYGITSDDIFWLKESPGKTLVVGASYVALECAGFLTGIGLDTTIMMRSIPL RGFDQQMSSMVEIHMASHGTRFLRGCAPSRVRLPDGQLQVTWEDSTTGKEDTGTFTVLWAIGRVPDTRS LNLEKAGVDTSPDTQKILVDSREATSVPHIYAIGDVVEGRPELTPAIMAGRLLVQRLFGGSSDLMDYDNPVPTT VFTPLEYGCVGLSEEEAVARHGQEHVEVYHAHYKPLEFTVAGRDAQCYVKMVCLREPPQLVLGLHFLGPNA GEVTQGFALGIKCGASYAQMRTVGIHPTCSEEVVCLRISKRSGLDPTVTGCSG

### 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:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer

### 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.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

**Protein Background**

Involved in the control of reactive oxygen species levels and the regulation of mitochondrial redox homeostasis. Maintains thioredoxin in a reduced state. May play a role in redox-regulated cell signaling.

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