

Recombinant Protein Technical Manual

Recombinant Human TXNRD1/TRXR1 Protein (aa 161-647, His Tag) RPES1217

Product Data:

Product SKU: RPES1217

Species: Human

Expression host: E. coli

Size: 20µg

Uniprot: Q16881

Protein	Intorn	hation
I I ULCIII		

Molecular Mass:	55 kDa
AP Molecular Mass:	60 kDa
Tag:	N-His
Bio-activity:	
Purity:	> 90 % as determined by reducing SDS-PAGE.
Endotoxin:	Please contact us for more information.
Storage:	Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping:	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation:	Lyophilized from sterile PBS, pH 7.4
Reconstitution:	Please refer to the printed manual for detailed information.
Application:	
Synonyms:	GRIM2;TR;TR1;TRXR1;TXNR

Sequence: Tyr 161-Cys 647

Background:

Thioredoxin reductase 1 (TXNRD1) which is a selenocysteine-containing protein is overexpressed in many malignancies. TXNRD1 plays a key role in regulating cell growth and transformation, and protects cells against oxidative damage. We investigated the association between TXNRD1 polymorphisms and ATDH susceptibility. Moreover, TXNRD1 is an essential selenium-containing enzyme involved in detoxification of reactive oxygen species (ROS) and redox signaling. And genetic variations in TXNRD1 favor the development of Drug-induced liver injury (DILI), which is the most common adverse drug reaction.