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

Catalog No. PKSH030732

Note: Centrifuge before opening to ensure complete recovery of vial contents.

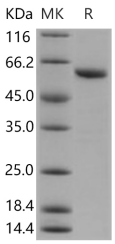
Description

Synonyms	GRIM-12;TR;TR1;TRXR1;TXNR
Species	Human
Expression Host	E.coli
Sequence	Tyr 161-Cys 647
Accession	Q16881-1
Calculated Molecular Weight	55.0 kDa
Observed molecular weight	60 kDa
Tag	N-His
Bioactivity	Not validated for activity

Properties

Purity	> 90 % as determined by reducing SDS-PAGE.
Endotoxin	Please contact us for more information.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ 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 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 90 % as determined by reducing SDS-PAGE.

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

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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.

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