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Datasheet for ABIN7198225
TXNRD1 Protein (AA 161-647) (His tag)

Overview

Quantity:	100 µg
Target:	TXNRD1
Protein Characteristics:	AA 161-647
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This TXNRD1 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human TXNRD1/TRXR1 Protein (aa 161-647, His Tag)
Sequence:	Tyr 161-Cys 647
Characteristics:	A DNA sequence encoding the human TXNRD1 isoform 1 (Q16881-1) (Tyr 161-Cys 647) was expressed, with a polyhistide tag at the N-terminus.
Purity:	> 90 % as determined by reducing SDS-PAGE.

Target Details

Target:	TXNRD1
Alternative Name:	TXNRD1/TRXR1 (TXNRD1 Products)
Background:	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

Target Details

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.

Synonym: GRIM-12,TR,TR1,TRXR1,TXNR

Molecular Weight: 55 kDa

Pathways: [Regulation of Lipid Metabolism by PPARalpha](#), [Regulation of Carbohydrate Metabolic Process](#), [Cell RedoxHomeostasis](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from sterile PBS, pH 7.4

Storage: 4 °C,-20 °C,-80 °C

Storage Comment: Generally, 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.