

Full-Length

TXNRD2 (Human) Recombinant Protein (P01)

Catalog # H00010587-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human TXNRD2 full-length ORF (AAH07489, 1 a.a. - 428 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MHQAALLGGLIQDAPNYGWEVAQPVPHDWRKMAEAVQNHVKSLNWGHRVQLQDRKVKYFNIKA
SFVDEHTVCGVAKGGKEILLSADHIIATGGRPRYPHTIEGALEYGITSDDIFWLKESPGKTLVVGAS
YVALECAGFLTIGLDTTIMMRSIPLRGFDQQMSSMVEIHMASHGTRFLRGCAPSRVRRLPDGQLR
VTWEDSTTGKEDTGTFTVLWAIGRVPDTRSLNLEKAGVDTSPDTQKILVDSREATSVPHIYAIGD
VVEGRPELTPIAIMAGRLLVQRLFGGSSDLMDYDNVPTTVFTPLEYGCVGLSEEEAVARHGQEHV
EVYHAHYKPLEFTVAGRDASQCWVKMVCLREPPQLVLGLHFLGPNAGEVTQGFALGIKCGASYA
QVMRTVGIHPTCSEEVVKLRISKRSGLDPTVTGC*G

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

72.82

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — TXNRD2

Entrez GeneID [10587](#)

GeneBank Accession# [BC007489](#)

Protein Accession# [AAH07489](#)

Gene Name TXNRD2

Gene Alias SELZ, TR, TR-BETA, TR3, TRXR2

Gene Description thioredoxin reductase 2

Omim ID [606448](#)

Gene Ontology [Hyperlink](#)

Gene Summary Thioredoxin reductase (TR) is a dimeric NADPH-dependent FAD containing enzyme that catalyze s the reduction of the active site disulfide of thioredoxin and other substrates. TR is a member of a family of pyridine nucleotide-disulfide oxidoreductases and is a key enzyme in the regulation of th e intracellular redox environment. Three thioredoxin reductase genes have been found that encod e selenocysteine containing proteins. This gene partially overlaps the COMT gene on chromosom e 22. [provided by RefSeq

Other Designations OTTHUMP00000195708|selenoprotein Z|thioredoxin reductase 3|thioredoxin reductase beta

Pathway

- [Pyrimidine metabolism](#)

Disease

- [Alzheimer disease](#)
- [Arsenic Poisoning](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Cognition](#)
- [Colorectal Neoplasms](#)
- [Diabetes Mellitus](#)
- [DNA Damage](#)
- [Drug Toxicity](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Hypercholesterolemia](#)
- [Kidney Failure](#)
- [Osteoarthritis](#)
- [Stomach Neoplasms](#)
- [Urinary Bladder Neoplasms](#)