
Product Data Sheet

Product Name: TXNRD1 Human 161-649 a.a.
 Cat. No.: GP22336
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.

Synonyms Thioredoxin reductase 1 cytoplasmic; TR; Gene associated with retinoic and interferon-induced mortality 12 protein; GRIM-12; Gene associated with retinoic and IFN-induced mortality 12 protein; KM-102-derived reductase-like factor; Thioredoxin reductase TR1; TXNRD1; GRIM12; KDRF; TR1; TXNR; TRXR1; MGC9145.

Amino Acid Sequence
 MGSSHHHHH SGLVPRGSH MYDYDLIIG GSGGLAAAK EAAQYGKKVM
 VLDFVTPTPL GTRWGLGGTC VNVGCIPKKL MHQAALLGQA LQDSRNYGWK
 VEETVKHDWD RMIEAVQNH I GSLNWGYRVA LREKKVYEN AYGQFIGPHR
 IKATNKGKE KIYSAERFLI ATGERPRYL I PGDKEYCIS SDDLFLPYC
 PGKTLVVGAS YVALECAGFL AGIGLDVTVM VRSILLRGFD QDMANKIGEH
 MEEHGIFIR QFVPIKVEQI EAGTPGRLRV VAQSTNSEEI IEGEYNTVML
 AIGRDACTRK IGLETGVGKI NEKTGKIPVT DEEQTNVPYI YAIGDILEDK
 VELTPVAIQ A GRLLAQRLYA GSTVKCDYEN VPTTVFTPLE YGACGLSEEK
 AVEKFGEENI EVYHSYFWPL EWTIPSRDNN KCYAKIICNT KDNERVVGFB
 VLGPNAGEVT QGFAAALKCG LTKKQLDSTI GIHPVCAEVF TTLSVTKRSG
 ASILQAGCCG.

Formulation The TXNRD1 solution (1 mg/ml) contains 20mM Tris-HCl buffer (pH8.0) and 10% Glycerol.

Introduction

TXNRD1 belongs to the selenium-containing pyridine nucleotide-disulphide oxidoreductase family, which has a conserved catalytic site of Cys-Val-Asn-Val-Gly-Cys. TXNRD1 decreases thioredoxins as well as other substrates, and participates in selenium metabolism and protection against oxidative stress. Inhibition of TXNRD1 activity serves as a potential treatment for cancer, AIDS and other autoimmune diseases as well as

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

bacterial infections and parasitic diseases.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

TXNRD1 Human Recombinant fused with a 21 amino acid His tag at N-terminus produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 510 amino acids (161-649 a.a.) and having a molecular mass of 55.9kDa. The TXNRD1 is purified by proprietary chromatographic techniques.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA