

Bovine Thioredoxin Reductase 1, Cytoplasmic (TXNRD1) ELISA Kit-Sandwich

Cat. No.: EK11F926

Product Type: Animal Immunoassay Kits

Size: 48T;96T

Product Overview

BioVenic Bovine Thioredoxin Reductase 1, Cytoplasmic (TXNRD1) ELISA Kit-Sandwich is designed for the quantitative determination of Bovine Thioredoxin Reductase 1, Cytoplasmic (TXNRD1) in serum, plasma, tissue homogenate, cell culture supernatant, cell extract, and other biological fluids using a Sandwich ELISA method. For research use only.

Specifications

Assay Type	ELISA-Sandwich
Specificity	The assay kit is specific for Bovine TXNRD1.
Target Species	Bovine
Species Reactivity	Bovine
Reproducibility	Intra-Assay: CV < 10%; Inter-Assay: CV < 10%
Assay Time	Around 270 min
Sample Requirement	Serum, plasma, tissue homogenate, cell culture supernatant, cell extract, and other biological fluids.

Target Information

Bovine Thioredoxin Reductase 1, Cytoplasmic is encoded by the *TXNRD1* gene in cattle. It is primarily found in the cytoplasm, where it contributes to maintaining cellular redox balance. It is a key player in oxidative stress control. It reduces and activates thioredoxin, an oxidoreductase containing a dithiol-disulfide active site, which in turn reduces oxidized cysteine residues on cellular proteins. It also acts synergistically with MAP3K13 to regulate the activation of NF-kappa-B in the cytosol.

Target/Biomarker	Bovine TXNRD1
Target Synonym	thioredoxin reductase 1; thioredoxin reductase 1, cytoplasmic; TR; peroxidase TXNRD1; thioredoxin reductase TR1
Gene ID	282388
UniProt ID	O62768

Shipping and Storage

This product is shipped with gel ice packs. It is recommended to store at 2-8 °C (Up to 6 months).

Reference

Cadenas, C. *et al.* Role of thioredoxin reductase 1 and thioredoxin interacting protein in prognosis of breast cancer. *Breast Cancer Research*. 2010, 12: R44.

The product is for research use only. Not for commercial, prophylactic, diagnostic, or therapeutic applications. Please determine the purpose of the product before purchasing. For further information and inquiry, please contact us.