

## Oxidized Thioredoxin Reductase Assay Kit (Microanalysis)

### Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Storage: Powder -20°C for 3 years  
In solvent -80°C for 2 years

Actual storage temperature shall be subject to the COA.

### Biological Description

Description

Thioredoxin reductase (Oxidized Thioredoxin Reductase, TrxR) is an NADPH-dependent dimeric selenoenzyme containing an FAD domain and belongs to the family of pyridine nucleotide-disulfide oxidoreductases. Together with thioredoxin and NADPH, it constitutes the thioredoxin system. TrxR has enzymatic activity similar to that of glutathione reductase (GR) and catalyzes the reduction of GSSG to GSH, making it one of the key enzymes in the glutathione redox cycle.

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