



Product Datasheet

Product Name	Glutaredoxin 2 Yeast Recombinant
Cata No	CB501369
Source	<i>Escherichia Coli.</i>
Synonyms	Thioltransferase, Glutathione-dependent oxidoreductase 2, TTR, TTR1, GLRX2, GRX2, GRX-2, GLRX-2, Glutaredoxin 2.

Description

GRX2 is a multifunctional enzyme with glutathione-dependent oxidoreductase, glutathione peroxidase and glutathione S-transferase (GST) activity. The disulfide bond functions as an electron carrier in the glutathione-dependent synthesis of deoxyribonucleotides by the enzyme ribonucleotide reductase. In addition, it is also involved in reducing cytosolic protein- and non-protein-disulfides in a coupled system with glutathione reductase. Required for resistance to reactive oxygen species (ROS) by directly reducing hydroperoxides and for the detoxification of ROS-mediated damage. Glutaredoxins are a family of glutathione-dependent hydrogen donors that participate in a variety of cellular redox reactions. Glutaredoxin-2 *Saccharomyces cerevisiae* Recombinant containing 6x His tag at C-terminus produced in *E.Coli* is a single, non-glycosylated, Polypeptide chain having a molecular mass of 17

kDa.

Physical Appearance

Sterile Filtered clear colorless solution.

Purity

Purity of GRX2 is greater than 90% as determined by SDS-PAGE.

Formulation

Glutaredoxin-2 solution contains 25mM Tris-HCl pH-7.5 & 0.01% Na Azide.

Stability

1 week at 2-10°C. For long term store at -20 to -80°C.

Applications

ELISA, Western Blot, strongly binds to glutathione, reduced and oxidized.