Recombinant Yeast Glutaredoxin 2, His-tagged

Cat. No. GRX2-76Y **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant cerevisiae Glutaredoxin-2 Saccharamyces conaining 6x His-tagged at C-terminus produced in*E.Coli*is a single, non-glycosylated, Polypeptide chain having a molecular mass of 17 kDa.
Species	Yeast
Source	E.coli
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.
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 25 mM Tris-HCl pH-7.5 & 0.01% Na Azide.
Applications	ELISA, Western Blot, strongly binds to glutathione, reduced and oxidized.

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

GENE INFORMATION

Gene Name	GRX2 Cytoplasmic glutaredoxin, thioltransferase, glutathione-dependent disulfide oxidoreductase involved in maintaining redox state of target proteins, also exhibits glutathione peroxidase activity, expression induced in response to stress [Saccharomyces cerevisiae]
Synonyms	TTR1; Cytoplasmic glutaredoxin, thioltransferase, glutathione-dependent disulfide oxidoreductase involved in maintaining redox state of target proteins, also exhibits glutathione peroxidase activity, expression induced in response to stress; YDR513W; GRX2
Gene ID	852124
Protein Refseq	NP_010801
UniProt ID	GDBY
Chromosome Location	IV;

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