

PRODUCT DATA SHEET

Product: Glutaredoxin 1 (Human)

Cat. No.: BC-340 (0.1 mg)

Description:

Glutaredoxin (Grx), also known as thiol transferase, is a small heat-stable oxidoreductase. Grxs form part of the glutaredoxin system, comprising NADPH, GSH and glutathione reductase, which transfers electrons from NADPH to glutaredoxins via GSH. First discovered in E.coli as GSH-dependent hydrogen donors for ribonucleotide reductase, Grx catalyzes GSH-disulfide oxidoreductase via two redox-active cysteine residues. The active sequence (Cys-Pro-Tyr-Cys) is conserved in a variety of species. The 12-kD dithiol protein has a role in reduction of mixed disulfides in cells exposed to oxidative stress.

Source/Host:

Purified from E.coli expressing the human Glutaredoxin 1 gene (1-106 a.a.)

Molecular Weight:

11.8 kDa

Purity:

>95% as determined by SDS-PAGE

Format:

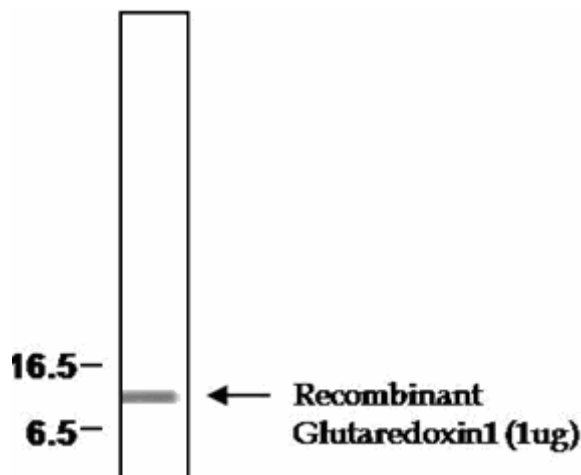
Frozen liquid. In storage buffer composed of 20 mM HEPES, pH 7.0, 10% glycerol and 1 mM DTT.

Storage:

Store at -80°C. Avoid repeated freeze/thaw cycles.

Specific Activity:

130 U/mg



Limitations:

For *in vitro* research use only. Not for use in diagnostics or in humans.

Warranty:

No warranties, expressed or implied, are made regarding the use of this product. KAMIYA BIOMEDICAL COMPANY is not liable for any damage, personal injury, or economic loss caused by this product.