

Recombinant Human GLRX2, His-tagged

Cat. No. GLRX2-27694TH Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant full length Human Glutaredoxin 2 with C terminal His tag; 154 amino acids with tag, MWt 17.0 kDa.

Species Human

Source E.coli

Description The protein encoded by this gene is a member of the glutaredoxin family of proteins, which maintain cellular thiol homeostasis. These proteins are thiol-disulfide oxidoreductases that use a glutathione-binding site and one or two active cysteines in their active site. This gene undergoes alternative splicing to produce multiple isoforms, one of which is ubiquitously expressed and localizes to mitochondria, where it functions in mitochondrial redox homeostasis and is important for the protection against and recovery from oxidative stress. Other isoforms, which have more restrictive expression patterns, show cytosolic and nuclear localization, and are thought to function in cellular differentiation and transformation, possibly with a role in tumor progression.

Conjugation HIS

Tissue specificity Widely expressed. Expressed in brain, heart, skeletal muscle, colon, thymus, spleen, kidney, liver, small intestine, placenta and lung. Not expressed in peripheral blood leukocytes.

Form Liquid

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|---------------------------------|--|
| Purity | >90% by SDS-PAGE |
| Storage buffer | Preservative: None Constituents: 10% Glycerol, 20mM Tris HCl, 0.1mM PMSF, pH 8.0 |
| Storage | Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. |
| Sequences of amino acids | MSAGWLDRAA GAAGAAAAAA SGMESNTSSS LENLATAPVN QIQETISDNC VVFSKTSCS YCTMAKKLFH DMNVNYKVVE LDLLEYGNQF QDALYKMTGE RTVPRIFVNG TFIGGATDTH RLHKEGKLLP LVHQCYLKKS KRKEFQLEHH HHHH |
| Sequence Similarities | Belongs to the glutaredoxin family. Contains 1 glutaredoxin domain. |
| Full Length | Full L. |

GENE INFORMATION

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|------------------------|---|
| Gene Name | GLRX2 glutaredoxin 2 [Homo sapiens] |
| Official Symbol | GLRX2 |
| Synonyms | GLRX2; glutaredoxin 2; bA101E13.1; bA101E13.1 (GRX2 glutaredoxin (thioltransferase) 2); GRX2; |
| Gene ID | 51022 |
| mRNA Refseq | NM_001243399 |
| Protein Refseq | NP_001230328 |
| MIM | 606820 |

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|----------------------------|--|
| Uniprot ID | Q9NS18 |
| Chromosome Location | 1p31.2-q31.3 |
| Function | 2 iron, 2 sulfur cluster binding; arsenate reductase (glutaredoxin) activity; electron carrier activity; glutathione disulfide oxidoreductase activity; metal ion binding; |

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