Recombinant Human Glutaredoxin 2, His-tagged

Cat. No. GLRX2-1828H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human Glutaredoxin 2, fused to His-tag at C-terminus, was expressed in E.coli and purified by using conventional chromatography.
Species	Human
Source	E.coli
Description	Glutaredoxin-2, as known as GRX2, multifunctional enzyme with glutathione-dependent oxidoreductase, glutathione peroxidase and glutathione S-transferase(GST) activity. This protein is localized both in the mitochondria and nucleus. It has anti-apoptotic activity by preventing cardiolipin oxidation and cytochrome c release. GRX2 exhibited 36% identity with GRX1 and had a disulfide active center containing the Cys-Ser-Tyr-Cys motif.
Sequences of amino acids	MSAGWLDRAAGAAGAAAAAASGMESNTSSSLENLATAPVNQIQETISDNC VVIFSK TSCSYCTMAKKLFHDMNVNYKVVELDLLEYGNQFQDALYKMTGERTVPRIFVNGTF I GGATDTH RLHKEGKLLP LVHQCYLKKS KRKEFQLEHH HHHH
Form	Liquid. In 20 mM Tris-HCl Buffer (pH 8.0) containing 0.1 mM PMSF, 10% Glycerol
Molecular Weight	17.0 kDa (154aa)
Purity	> 90% by SDS - PAGE
Concentration	0.5 mg/ml (determined by Bradford assay)

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Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name	GLRX2 glutaredoxin 2 [Homo sapiens]
Synonyms	GLRX2; GRX2; bA101E13.1; bA101E13.1; glutaredoxin 2; bA101E13.1 (GRX2 glutaredoxin (thioltransferase) 2); OTTHUMP00000033766; OTTHUMP00000033767; bA101E13.1; glutaredoxin 2.
Gene ID	51022
mRNA Refseq	NM_016066
Protein Refseq	NP_057150
MIM	606820
UniProt ID	Q9NS18
Chromosome Location	1q31.2-q31.3
Function	2 iron, 2 sulfur cluster binding; arsenate reductase (glutaredoxin) activity; electron carrier activity; glutathione disulfide oxidoreductase activity; iron ion binding; metal ion binding; protein disulfide oxidoreductase activity
PDB rendering based on 2cq9.Available structures 2cq9, 2fls, 2ht9	

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