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

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Purity	>90% by SDS-PAGE
Storage buffer	Preservative: NoneConstituents: 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 VVIFSKTSCS 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

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

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

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;

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA