

Recombinant Human GLRX2 Protein

Cat. No. GLRX2-013H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human GLRX2 protein without tag was expressed in E. coli.
Species	Human
Source	E.coli
Description	Glutathione-dependent oxidoreductase that facilitates the maintenance of mitochondrial redox homeostasis upon induction of apoptosis by oxidative stress. Involved in response to hydrogen peroxide and regulation of apoptosis caused by oxidative stress. Acts as a very efficient catalyst of monothiol reactions because of its high affinity for protein glutathione-mixed disulfides. Can receive electrons not only from glutathione (GSH), but also from thioredoxin reductase supporting both monothiol and dithiol reactions. Efficiently catalyzes both glutathionylation and deglutathionylation of mitochondrial complex I, which in turn regulates the superoxide production by the complex. Overexpression decreases the susceptibility to apoptosis and prevents loss of cardiolipin and cytochrome c release.
Form	Lyophilized
Stability	≥ 6 months
Storage	4 centigrade
Storage Buffer	50 mM tris-HCl-1 mM EDTA, pH 7.5

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GENE INFORMATION

Gene Name	GLRX2 glutaredoxin 2 [Homo sapiens (human)]
Official Symbol	GLRX2
Synonyms	GLRX2; glutaredoxin 2; GRX2; CGI-133; glutaredoxin 2; bA101E13.1 (GRX2 glutaredoxin (thioltransferase) 2); glutaredoxin (thioltransferase) 2
Gene ID	51022
mRNA Refseq	NM_001243399
Protein Refseq	NP_001230328
MIM	606820
UniProt ID	Q9NS18

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