Recombinant Mouse Glrx2 Protein, Myc/DDK-tagged

Cat. No. Glrx2-3230M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length glutaredoxin 2 (thioltransferase) (Glrx2), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
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.
Molecular Mass	14.5 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

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Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 μg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Glrx2 glutaredoxin 2 (thioltransferase) [Mus musculus (house mouse)]
Official Symbol	Glrx2
Synonyms	GLRX2; glutaredoxin 2 (thioltransferase); glutaredoxin-2, mitochondrial; Grx2; AI645710; 1700010P22Rik
Gene ID	69367
mRNA Refseq	NM_023505
Protein Refseq	NP_075994
UniProt ID	Q923X4

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