Recombinant Human Glutaredoxin 3, His-tagged

Cat. No. GLRX3-2405H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human Glutaredoxin-3, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques, 39.6kDa (355aa).
Species	Human
Source	E.coli
Description	Glutaredoxin(GRX), also known as thioltransferase, is member of the thiol-disulfide oxidoreductase family. Glutraredoxin catalyzes the reversible reduction of protein-glutathionyl mixed disulfides to free sulfhydryl groups though a monothiol mechanism. Glutaredoxin-3 (Grx3/PICOT) is an essential protein involved in the regulation of signal transduction, for instance during immune cell activation and development of cardiac hypertrophy, presumably in response to redox signals. And it has been shown to interact with PRKCQ.
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol, 1mM DTT.
Purity	> 95% by SDS – PAGE.
Concentration	0.5mg/ml (determined by Bradford assay).
Sequences Of Amino Acids	MGSSHHHHHH SSGLVPRGSH MAAGAAEAAV AAVEEVGSAG QFEELLRLKA KSLLVVHFWA PWAPQCAQMN EVMAELAKEL PQVSFVKLEA EGVPEVSEKY EISSVPTFLF FKNSQKIDRL DGAHAPELTK KVQRHASSGS FLPSANEHLK

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	EDLNLRLKKL THAAPCMLFM KGTPQEPRCG FSKQMVEILH KHNIQFSSFD IFSDEEVRQG LKAYSSWPTY PQLYVSGELI GGLDIIKELE ASEELDTICP KAPKLEERLK VLTNKASVML FMKGNKQEAK CGFSKQILEI LNSTGVEYET FDILEDEEVR QGLKAYSNWP TYPQLYVKGE LVGGLDIVKE LKENGELLPI LRGEN.
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	GLRX3 glutaredoxin 3 [Homo sapiens]
Synonyms	glutaredoxin 3; GRX3; GRX4; GLRX4; PICOT; TXNL2; TXNL3; FLJ11864; bA500G10.4; GLRX3; glutaredoxin-3; glutaredoxin 4; thioredoxin-like 2; PKCq-interacting protein; thioredoxin-like protein 2; PKC-theta-interacting protein; PKC-interacting cousin of thioredoxin; OTTHUMP00000020747; Thioredoxin-like protein 2
Gene ID	10539
mRNA Refseq	NM_006541
Protein Refseq	NP_006532
MIM	612754
UniProt ID	O76003
Chromosome Location	10q26
Function	electron carrier activity; protein binding; protein disulfide oxidoreductase activity;

	protein kinase C binding
PDB rendering based on 1wik.	

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