

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. Glutaredoxin catalyzes the reversible reduction of protein-glutathionyl mixed disulfides to free sulfhydryl groups through 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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EDLNLRLLKKL THAAPCMLFM KGTPQEPRCG FSKQMVEILH KHNIQFSSFD
 IFSDEEVRQG LKAYSSWPTY PQLYVSGELI GGLDIIKELE ASEELDTICP
 KAPKLEERLK VLTNKASVML FMKGNKQEAK CGFSKQILEI LNSTGVEYET
 FDILEDEEVR QGLKAYSNWP TYPQLYVKGE LVGGDLIVKE 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;

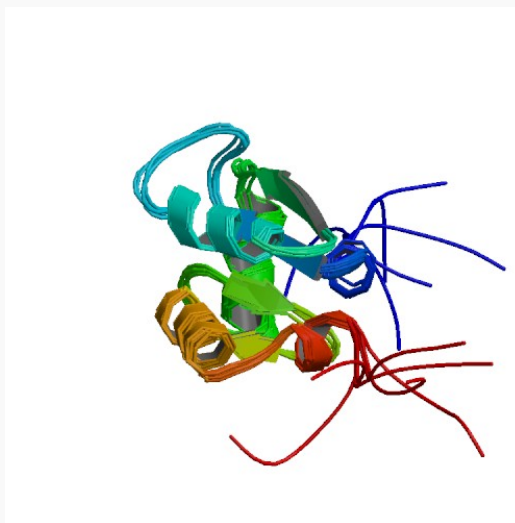
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protein kinase C binding

PDB rendering based
on 1wik.



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