

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 KLLLVVHFWA PWAPQCAQMN EVMAELAKEL PQVSFVKLEA EGVPEVSEKY EISSVPTFLF FKNSQKIDRL DGAHAPELTK KVQRHASSGS FLPSANEHLK

 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

EDLNLRLLKKL 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;

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protein kinase C binding

PDB rendering based
on 1wik.



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