Recombinant human Glutaredoxin 3/GLRX3 protein

Catalog Number: ATGP0551

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-335aa

UniProt No.
O76003

NCBI Accession No.
NP_006532

Alternative Names
Glutaredoxin-3, GRX3, PKC-interacting cousin of thioredoxin, PKC-theta-interacting protein, PKCq-interacting protein, Thioredoxin-like protein 2, Glutaredoxin 4, GLRX4, GRX4, PICOT, TXNL2, HUSSY-22, bA500G10.4

PRODUCT SPECIFICATION

Molecular Weight
39.6 kDa (355aa) confirmed by MALDI-TOF

Concentration
0.5mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 1mM DTT

Purity
> 95% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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. Recombinant human

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Glutaredoxin-3, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

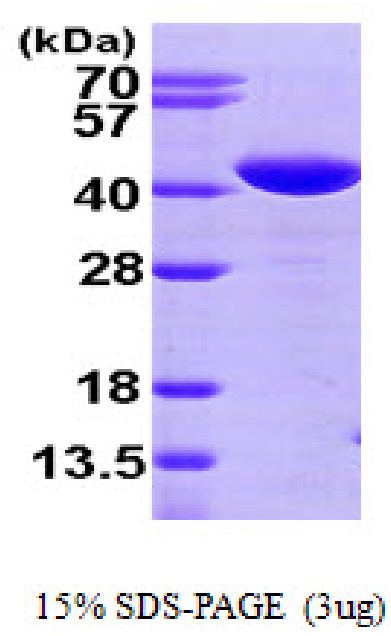
MGSSHHHHHH SSGLVPRGSH MAAGAAEAAV AAVEEVGSAG QFEELLRLKA KSLLVVHFWA PWAPQCAQMN EVMAELAKEL PQVSFVKLEA EGVPEVSEKY EISSVPTFLF FKNSQKIDRL DGAHAPELTK KVQRHASSGS FLPSANEHLK EDLNLRLKKL THAAPCMLFM KGTPQEPRCG FSKQMVEILH KHNIQFSSFD IFSDEEVRQG LKAYSSWPTY PQLYVSGELI GGLDIIKELE ASEELDTICP KAPKLEERLK VLTNKASVML FMKGNKQEAK CGFSKQILEI LNSTGVEYET FDILEDEEVR QGLKAYSNWP TYPQLYVKGE LVGGLDIVKE LKENGELLPI LRGEN

General References

Witte S., et al. (2000) J Biol Chem 275(3): 1902-9.
Haunhorst P., et al. (2010) Biochem Biophys Res Commun. 394(2):372-6

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.