

Glutaredoxin-3, 1-335aa, Human, His tag, E.coli

Cat.NO.: TP02268

3th Edition

Synonyms: Thioredoxin-like protein 2, GLRX3, PICOT, TXNL2, GRX3

Description: Glutaredoxin (GRX), also known as thioltransferase, is a 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.

Form: Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol, 1mM DTT

Molecular Weight: 39.6kDa (355aa)

Sequences:

MGSSHHHHHSSGLVPRGSHMAAGAAEAAVAAVEEVGSAGQFEELLRLKAKSLLVHFWAPWAPQCAQMNEVM
AELAKELPQVSFVKLEAEGVPEVSEKYEISSVPTFLFFKNSQKIDRLDGAHAPELTKKVQRHASSGSFLPSANEHLK
EDLNLRLKKLTHAAPCMLFMKGTPQEPRCGFSKQMV EILHKHNIQFSSFDIFSDEEVRQGLKAYSSWPTYPQLYVS
GELIGGLDIIKELEASEELDTICPKAPKLEERLKVLTNKASVMLFMKGNKQEA KCGFSKQILEILNSTGVEYETFDILED
EEVRQGLKAYSNWPTYPQLYVKGELVGGGLDIVKELKENGELLPILRGEN

Purity: > 95% by HPLC

Concentration: 0.5 mg/ml (determined by Bradford assay)

Endotoxin Level: <1.0 EU per 1 µg of protein (determined by LAL method)

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.