
Product Data Sheet

Product Name: GLRX3 Human

Cat. No.: GP21688

Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Glutaredoxin-3; Thioredoxin-like protein 2; PKC-interacting cousin of thioredoxin; PKC-theta-interacting protein; PKCq-interacting protein; GLRX3; PICOT; TXNL2; GRX3; GRX4; GLRX4; TXNL3; FLJ11864; bA500G10.4.		
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.		
Formulation	GLRX3 solution containing 20mM Tris-HCl buffer (pH8.0), 10% glycerol and 1mM DTT.		

Introduction

Glutaredoxin belongs to the thiol-disulfide oxidoreductase family. Glutaredoxins catalyze the reversible reduction of protein-glutathionyl mixed disulfides to free sulfhydryl groups through a monothiol mechanism. Glutaredoxin-3 (GRX3) is an important protein involved in the regulation of signal transduction, for example during immune cell activation and development of cardiac hypertrophy, apparently in response to redox signals. GRX3 interacts with PRKCQ. GRX3 may have a role in the regulation of the function of the thioredoxin system. GRX3 is expressed in the heart, spleen, testis and, to a lower extent, in the thymus and peripheral blood leukocytes. GRX3 is weakly expressed in lung, placenta, colon and small intestine.

Caution: Product has not been fully validated for medical applications. For research use only.

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Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

GLRX3 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 355 amino acids (1-335 a.a.) and having a molecular mass of 39.6kDa. GLRX3 is fused to a 20 amino acid His Tag at N-terminus and purified by proprietary chromatographic techniques.

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