

Recombinant Human GLRX Protein, His-tagged

Cat. No. GLRX-139H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active human recombinant N-terminal His-TEV tagged Grx1 (2-106) was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	2-106 a.a.
Description	This gene encodes a member of the glutaredoxin family. The encoded protein is a cytoplasmic enzyme catalyzing the reversible reduction of glutathione-protein mixed disulfides. This enzyme highly contributes to the antioxidant defense system. It is crucial for several signalling pathways by controlling the S-glutathionylation status of signalling mediators. It is involved in beta-amyloid toxicity and Alzheimer's disease. Multiple alternatively spliced transcript variants encoding the same protein have been identified.
Molecular Mass	13.9 kDa
Purity	≥ 95% estimated by SDS-PAGE
Unit Definition	One unit is defined as the amount of enzyme required to produce 1 nmol of Eosin-GSH per minute at 25 centigrade in 0,1 Mpotassium phosphate, pH 7.5, containing 1 mM EDTA, 1U/mL glutathione reductase, 0.5 mM GSH, 0.25 mM NADPH, 0.75 µM alkylated BSA, and 20

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	μM Eosin-GS-BSA.
Applications	Enzyme Activity
Stability	≥ 1 year
Storage	At -80 centigrade.
Storage Buffer	50 mM Tris-HCl, pH 7.8, with 150 mM sodium chloride, 10% glycerol, 1 mM EDTA, and 0.1 mM DTT

GENE INFORMATION

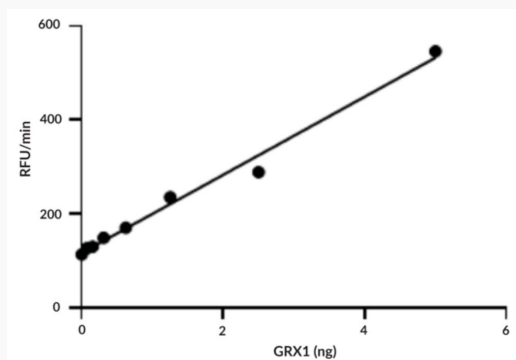
Gene Name	GLRX glutaredoxin [Homo sapiens (human)]
Official Symbol	GLRX
Synonyms	GLRX; glutaredoxin; GRX; GRX1; glutaredoxin-1; TTase-1; thioltransferase; thioltransferase-1; EC 1.8.4.1; tyrosine-protein kinase Blk; B lymphoid tyrosine kinase; BLK nonreceptor tyrosine kinase; b lymphocyte kinase; p55-Blk; EC 2.7.10.2
Gene ID	2745
mRNA Refseq	NM_002064
Protein Refseq	NP_002055
MIM	600443
UniProt ID	P35754

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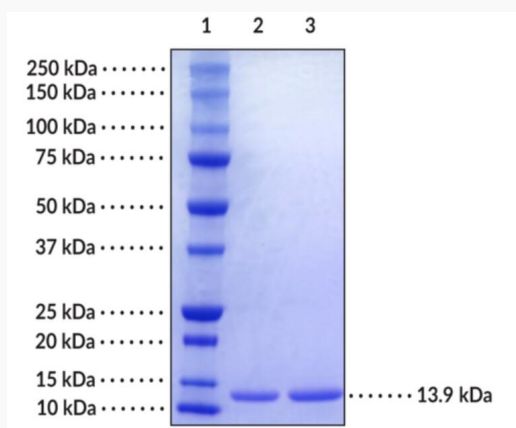
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Activity



SDS-PAGE analysis of Glutaredoxin 1



Lane 1: MW Markers

Lane 2: Glutaredoxin 1(2 µg)

Lane 3: Glutaredoxin 1(4 µg)

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