Glutathione Reductase (Hu) Recombinant Protein Tested Species Reactivity

Not Applicable (N/A)

Tested Applications	Dilution *
Control (Ctrl)	Assay Dependent

* Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own experiment using appropriate negative and positive controls.

resale without express authorization.

Lot Number: QI2088262

Product Data Sheet

Details	
Catalog Number:	LF-P0024
Size:	0.5 mg
Class:	Recombinant
Туре:	Protein
Clone:	
Host / Isotype:	E. Coli /
Immunogen:	

Form Information		
Form:	Lyophilized	
Purification:	purified	
Storage Buffer:	0.02M HEPES, pH 7.5	
Preservative:	no preservative	
Storage Conditions:	-20°C	

Product Specific Information	General Information
This protein corresponds to human Glutathione Reductase (44-522 aa with additional 3 amino acids-GSH at N-term), which has a molecular weight of	Glutathione reductase (GR) is a member of pyridine nucleotide-disulfide oxidoreductases, which includes the closely related enzymes thioredoxin
51.7 kDa.	reductase, lipoamide dehydrogenase, trypanothione reductase and mercuric ion reductase. GR is a cytoplasmic flavoenzyme widely distributed in
Specific activity: 19.4 U/mg, where one unit will reduce 1 umol of oxidized glutathione per min at pH 7.5 at 25°C.	aerobic organisms. The dimeric protein is composed of two identical subunits, each containing 1 FAD and 1 redox-active disulfide/dithiol as
Purity: >95% by SDS-PAGE.	components of the catalytic apparatus. It plays a role in maintaining glutathione (GSH) in its reduced form by catalyzing the reduction of
After reconstitution, store at -80°C and avoid freeze and thaw cycles.	glutathione disulfide (GSSG) : GSSG + NADPH + H+ to 2GSH + NADP+ In most eukaryotic cells, GR maintains the ratio of [GSH]/[GSSG] elevated,
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