

Recombinant Full Length Human GSR Protein, GST-tagged

Cat. No. GSR-3332HF Lot. No. (See product label)

SPECIFICATION

Product Overview	Human GSR full-length ORF (NP_000628.2, 1 a.a. - 522 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	522 amino acids
Description	This gene encodes a member of the class-I pyridine nucleotide-disulfide oxidoreductase family. This enzyme is a homodimeric flavoprotein. It is a central enzyme of cellular antioxidant defense, and reduces oxidized glutathione disulfide (GSSG) to the sulfhydryl form GSH, which is an important cellular antioxidant. Rare mutations in this gene result in hereditary glutathione reductase deficiency. Multiple alternatively spliced transcript variants encoding different isoforms have been found. [provided by RefSeq, Aug 2010]
Molecular Mass	82.7 kDa
AA Sequence	MALLPRALSAGAGPSWRRRAARAFRGFLLLLPEPAALTRALSRAMACRQEPQPQGP PPAAGAVASYDYLVIGGGSGGLASARRAAELGARAADVESHKLGGTVCNVGCVPKK VMWNTAVHSEFMHDHADYGFPSCGKFNWRVIEKRDAYVSRNLAIYQNNLTKSHI EIIRGHAAFTSDPKPTIEVSGKKYTAPHILIATGGMPSTPHESQIPGASLGITSDGFFQL EELPGRSVIVGAGYIAVEMAGILSALGSKTSLMIRHDKVLRSFDSMISTNCTEELNA GVEVLKFSQVKEVKKTLGLEVSMVTAVPGRLPVMTPDVEDCLLWAIGRVPNTKDL

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SLNKLGIQTDDKGGHIIVDEFQNTNVKGIYAVGDVCGKALLTPVAIAAGRKLAHRLFYK
 EDSKLDYNNIPTVVFSHPPIGTVGLTEDEAIHKYGIENVKTYSTSFTPMYHAVTKRKT
 KCVMMKMCANKEEKVVGIHMQGLGCDEMLQGFVAVKMGATKADFNTVAIHPTS
 SEELVTLR

Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -8 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name	GSR glutathione reductase [Homo sapiens]
Official Symbol	GSR
Synonyms	GSR; glutathione reductase; glutathione reductase, mitochondrial; GR; GRase; MGC78522;
Gene ID	2936
mRNA Refseq	NM_000637
Protein Refseq	NP_000628

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MIM	138300
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UniProt ID	P00390
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