

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 PPAAGAVASYDYLVIGGGSGGLASARRAAELGARAADVESHKLGGTCVNVGCVPKK VMWNTAVHSEFMHHDHADYGFPSCGKFNWRVIEKRDAYVSRNLAIYQNNLTKSHI EIIRGHAAFTSDPKPTIEVSGKKYTAPHILIATGGMPSTPHESQIPGASLGITSDGFFQL EELPGRSVIVGAGYIAVEMAGILSALGSKTSLMIRHDKVLRSFDSMISTNCTEELNA GVEVLKFSQVKEVKKTLSGLEVSMVTAVPGRLPVMTMIPDVDCLLWAIGRVPNTKDL

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SLNKLGIQTDDKGHIIVDEFQNTNVKGIYAVGDVCGKALLTPVAIAAGRKLAHRLFYK
EDSKLDYNNIPTVVFSHPPIGTVGLTEDEAIHKYGIENVKTYSTSFTPMYHAVTKRKT
KCVMMKMCANKEEKVVGIHMQGLGCDEMLQGFAVAVKMGATKADFDNTVAIHPTS
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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