

Product datasheet for **TP309652M**

Glutathione Reductase (GSR) (NM_000637) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Recombinant protein of human glutathione reductase (GSR), 100 µg

Species: Human

Expression Host: HEK293T

Expression cDNA >RC209652 protein sequence

Clone or AA **Red**=Cloning site **Green**=Tags(s)

Sequence:

MALLPRALSAGAGPSWRRARAARFRGFLLLLPEPAALTRALSRAMACRQEPQPQGPAAAGAVASYDYDLVI
GGGSGGLASARRAAELGARAAVVESHKLGTCVNVGCVPKKVMWNTAVHSEFMHDHADYGFPSCGKFNW
RVIKEKRDAYVSRNLNAYQNNLTKSHIEIIRGHAAFTSDPKPTIEVSGKKYTAPHILIATGGMPSTPHES
QIPGASLGITSDGFFQLEELPGRSVIVGAGYIAVEMAGILSALGSKTSLMIRHDKVLRFSFDSMISTNCTE
ELENAGVEVLKFSQVKEVKKTLGLEVSMVTAVPGRLPVMTMIPDVDCLLWAGRVPNTKDLSLNKLGIQ
TDDKGHIIVDEFQNTNVKGIYAVGDVCGKALLTPVAIAAGRKLAHRLFYKEDSKLDYNNIPTVVFHPP
IGTVGLTEDEAIHKYGIENVKTYSTSFTPMYHAVTKRKTCKVMKMCANKEEKVVGIIHQGLGCEDEMLQG
FAVAVKMGATKADFDNTVAIHPTSSEELVTLR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

Predicted MW: 56.1 kDa

Concentration: >0.05 µg/µL as determined by microplate BCA method

Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining

Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

Preparation: Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

Note: For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

Storage: Store at -80°C.

Stability: Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.



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RefSeq: [NP_000628](#)

Locus ID: 2936

UniProt ID: [P00390, V9HW90](#)

RefSeq Size: 3174

Cytogenetics: 8p12

RefSeq ORF: 1566

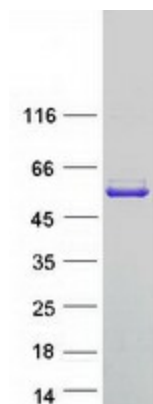
Synonyms: GR; GSRD; HEL-75; HEL-S-122m

Summary: 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]

Protein Families: Druggable Genome

Protein Pathways: Glutathione metabolism

Product images:



Coomassie blue staining of purified GSR protein (Cat# [TP309652]). The protein was produced from HEK293T cells transfected with GSR cDNA clone (Cat# [RC209652]) using MegaTran 2.0 (Cat# [TT210002]).