



Human GSR peptide (DAG-P0570)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen 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]
Purity	70 - 90% by HPLC.
Conjugate	Unconjugated
Sequence Similarities	Belongs to the class-I pyridine nucleotide-disulfide oxidoreductase family.
Format	Liquid
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

GENE INFORMATION

Gene Name	GSR glutathione reductase [Homo sapiens (human)]
Official Symbol	GSR
Synonyms	GSR; glutathione reductase; HEL-75; glutathione reductase, mitochondrial; GR; GRase; epididymis luminal protein 75;
Entrez Gene ID	2936

mRNA Refseq	NM_000637.3
Protein Refseq	NP_000628.2
UniProt ID	P00390
Chromosome Location	8p21.1
Pathway	Cellular responses to stress, organism-specific biosystem; Detoxification of Reactive Oxygen Species, organism-specific biosystem; Glutathione metabolism, organism-specific biosystem; Glutathione metabolism, organism-specific biosystem; Glutathione metabolism, conserved biosystem; Metabolism, organism-specific biosystem; Metabolism of nucleotides, organism-specific biosystem; Oxidative Stress, organism-specific biosystem; Selenium Pathway, organism-specific biosystem; Sulfation Biotransformation
Function	NADP binding; electron carrier activity; flavin adenine dinucleotide binding; glutathione-disulfide reductase activity;