

# Human GSR Knockdown Cell Lysate

Cat. No. GSR-189HKCL Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	WB-validated GSR Knockdown HeLa Cell Lysate
<b>Species</b>	Human
<b>Source</b>	HeLa
<b>Description</b>	<p>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.</p>
<b>Form</b>	Cell-Tissue Lysis buffer
<b>Molecular Mass</b>	56 kDa
<b>Notes</b>	<p>Instruction of use: This knockdown cell lysate should be paired with wild-type HeLa cell lysate for use. For Western blotting, we recommend running wild-type and knockdown lysates on the same gel, and loading each well with equal volume and equal amount of total proteins.</p>
<b>Storage</b>	Store at -20 centigrade for two years.
<b>Concentration</b>	Lot-specific

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<b>Shipping</b>	Blue Ice
<b>Components</b>	1 vial of 100 µg WT HeLa cell lysate 1 vial of 100 µg GSR KD HeLa cell lysate
<b>Protein Families</b>	Druggable Genome
<b>Protein Pathways</b>	Glutathione metabolism
<b>Lysate QC</b>	RT-qPCR; Western Blotting (WB)

## GENE INFORMATION

<b>Gene Name</b>	GSR glutathione reductase [ Homo sapiens (human) ]
<b>Official Symbol</b>	GSR
<b>Synonyms</b>	GSR; glutathione reductase; glutathione reductase, mitochondrial; GR; GRase; MGC78522;
<b>Gene ID</b>	2936
<b>mRNA Refseq</b>	NM_000637
<b>Protein Refseq</b>	NP_000628
<b>MIM</b>	138300
<b>UniProt ID</b>	P00390

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