

Human GSR Knockdown Cell Lysate

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

SPECIFICATION

Product Overview	WB-validated GSR Knockdown HeLa Cell Lysate
Species	Human
Source	HeLa
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.
Form	Cell-Tissue Lysis buffer
Molecular Mass	56 kDa
Notes	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.
Storage	Store at -20 centigrade for two years.
Concentration	Lot-specific

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

GENE INFORMATION

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

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