# Human GSS Knockdown Cell Lysate

**Cat. No.** GSS-190HKCL **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | WB-validated GSS Knockdown HeLa Cell Lysate |
| **Species** | Human |
| **Source** | HeLa |
| **Description** | Glutathione is important for a variety of biological functions, including protection of cells from oxidative damage by free radicals, detoxification of xenobiotics, and membrane transport. The protein encoded by this gene functions as a homodimer to catalyze the second step of glutathione biosynthesis, which is the ATP-dependent conversion of gamma-L-glutamyl-L-cysteine to glutathione. Defects in this gene are a cause of glutathione synthetase deficiency. |
| **Form** | Cell-Tissue Lysis buffer |
| **Molecular Mass** | 52 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 GSS KD HeLa cell lysate |
| **Protein Families** | Druggable Genome |
| **Protein Pathways** | Glutathione metabolism, Metabolic pathways |
| **Lysate QC** | RT-qPCR; Western Blotting (WB) |

## GENE INFORMATION

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|---|---|
| **Gene Name** | GSS glutathione synthetase [ Homo sapiens (human) ] |
| **Official Symbol** | GSS |
| **Synonyms** | GSS; glutathione synthetase; GSH-S; GSH synthetase; glutathione synthase; GSHS; MGC14098; |
| **Gene ID** | 2937 |
| **mRNA Refseq** | NM_000178 |
| **Protein Refseq** | NP_000169 |
| **MIM** | 601002 |
| **UniProt ID** | P48637 |

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