

## Recombinant Human GSS Protein, GST-tagged

**Cat. No.** GSS-4406H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Human GSS full-length ORF ( AAH07927, 1 a.a. - 474 a.a.) recombinant protein with GST-tag at N-terminal.                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Source</b>           | Wheat Germ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Description</b>      | 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. [provided by RefSeq]     |
| <b>Molecular Mass</b>   | 77.77 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>AA Sequence</b>      | MATNWGSLQDKQQLLEELARQAVDRALAEGLLRRTSQEPTSSEVVSYAPFTLFPSL<br>VPSALLEQAYAVQMDFNLLVDAVSQNAAFLEQTLSSSTIKQDDFTARLFDIHKQVLKE<br>GIAQTVFLGLNRSDFMFQSRADGSPALKQIEINTISASFGGLASRTPAVHRHVLSVLS<br>KTKEAGKILSNNPSKGLALGIAKAWELYGSPNALVLLIAQEKERNIFDQRAIENELLAR<br>NIHVIRRTFEDISEKGSQDQDRRLFVDGQEIADVYFRDGYMPRQYSLQNWEARLLLE<br>RSHAAKCPDIATQLAGTKKVQQELSRPGMLEMLLPQPEAVARLRATFAGLYSLDV<br>GEEGDQAI AEALAPSRLFVKPQREGGNNLYGEEMVQALKQLKDSEERASYILME<br>KIEPEPFENCLLRPGSPARVVQCISELGIFGVYVRQEKTLVMNKHVGHLLRTKAIEHA |

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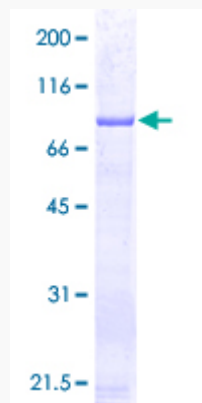
|                         |                                                                                                                   |
|-------------------------|-------------------------------------------------------------------------------------------------------------------|
|                         | DGGVAAGVAVLDNPYPV                                                                                                 |
| <b>Applications</b>     | Enzyme-linked Immunoabsorbent Assay<br>Western Blot (Recombinant protein)<br>Antibody Production<br>Protein Array |
| <b>Notes</b>            | Best use within three months from the date of receipt of this protein.                                            |
| <b>Storage</b>          | Store at -8 centigrade. Aliquot to avoid repeated freezing and thawing.                                           |
| <b>Storage Buffer</b>   | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.                                          |
| <b>GENE INFORMATION</b> |                                                                                                                   |
| <b>Gene Name</b>        | GSS glutathione synthetase [ Homo sapiens ]                                                                       |
| <b>Official Symbol</b>  | GSS                                                                                                               |
| <b>Synonyms</b>         | GSS; glutathione synthetase; GSH-S; GSH synthetase; glutathione synthase; GSHS; MGC14098;                         |
| <b>Gene ID</b>          | 2937                                                                                                              |
| <b>mRNA Refseq</b>      | NM_000178                                                                                                         |
| <b>Protein Refseq</b>   | NP_000169                                                                                                         |
| <b>MIM</b>              | 601002                                                                                                            |
| <b>UniProt ID</b>       | P48637                                                                                                            |

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**Quality Control  
Testing**



12.5% SDS-PAGE Stained with Coomassie Blue.

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