

## Recombinant Human GSS Protein, His-tagged

**Cat. No.** GSS-807H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human GSS(Ala2-Val474) fused with His tag at C-terminal was expressed in E. coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	2-474 a.a.
<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.
<b>Form</b>	20mM Tris-HCl, 200mM NaCl, pH 7.5. Avoid repeated freeze-thaw cycles. Stable for at least 3 months from receipt of products under proper storage and handling conditions.
<b>Molecular Mass</b>	53.5 kDa
<b>Endotoxin</b>	< 0.1 EU per g protein as determined by LAL test
<b>Purity</b>	>95% as determined by SDS-PAGE and Coomassie blue staining

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**Concentration** >50 ug/mL as determined by microplate BCA method

## GENE INFORMATION

**Gene Name** GSS glutathione synthetase [ Homo sapiens ]

**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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