

Recombinant Human GSS, His-tagged

Cat. No. GSS-26092TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length protein, corresponding to amino acids 1-474 of Human Glutathione Synthetase with N terminal His tag, MWt 56kDa.
Species	Human
Source	E.coli
ProteinLength	1-474 a.a.
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.
Conjugation	HIS
Form	Lyophilised:Reconstitute with 41 µl aqua dest.
Storage buffer	Preservative: NoneConstituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.

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Sequences of amino acids

MATNWGSLLQDKQQLEELARQAVDRALAEGVLLRTSQEPT SSEVVSYPFTLFP
 VPSALLEQAYAVQMDFNLLVDA VSQNAAFLEQTLSSSTIKQDDFTARLFDIHKQVLKE
 GIA QTVFLGLNRSYMFQRSADGSPALKQIEINTISASFGG LASRTPAVHRHVLVSL
 SKTKEAGKILSNNPSKGLALGIAK AWELYGSPNALVLLIAQEKERNIFDQRAIENELLA
 RNI HVIRRTFEDISEKGSLDQDRRLFVDGQEIAVVYFRDGY MPRQYSLQNWEARLL
 LERSHAACKPDIAQLAGTKKVQ QELSRPGMLEMLLPQGPEAVARLRATFAGLYSL
 DVGEE GDQAI AEALAPSRLFVKPQREGGGNNLYGEEMVQALKQL KDSEERASYI
 LMEKIEPEPFENCLLRPGSPARVVQCIS ELGIFGVYVRQEKTLMNKHVGHLLRTKAI
 EHADGGVA AGVAVLDNPYPV

Sequence Similarities

Belongs to the eukaryotic GSH synthase family.

Full Length

Full L.

GENE INFORMATION
Gene Name

GSS glutathione synthetase [Homo sapiens]

Official Symbol

GSS

Synonyms

GSS; glutathione synthetase;

Gene ID

2937

mRNA Refseq

NM_000178

Protein Refseq

NP_000169

MIM

601002

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Uniprot ID	P48637
Chromosome Location	20q11.2
Pathway	Biological oxidations, organism-specific biosystem; Glutathione biosynthesis, glutamate => glutathione, organism-specific biosystem; Glutathione biosynthesis, glutamate => glutathione, conserved biosystem;
Function	ATP binding; glutathione binding; glutathione synthase activity; glycine binding; ligase activity;

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