

Recombinant Human GSS Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. GSS-3695H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	GSS MS Standard C13 and N15-labeled recombinant protein (NP_000169) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	52.4 kDa
AA Sequence	MATNWGSLQDKQQLEELARQAVDRALAEGLVLLRTSQEPTSSEVVSYAPFTLFPSL VPSALLEQAYAVQMDFNLLVDAVSQNAAFLEQTLSSSTIKQDDFTARLFDIHKQVLKE GIAQTVFLGLNRSDFMFQRSADGSPALKQIEINTISASFGGLASRTPAVHRHVLVLS KTKEAGKILSNNPSKGLALGIAKAWELYGSPNALVLLIAQEKERNIFDQRAIENELLAR NIHVIRRTFEDISEKGS LDQDRRLFVDGQEIAVVYFRDGYMPRQYSLQNWEARLLLE RSHAACKPDIA TQLAGTKKVQQELSRPGMLEMLLPQGQPEAVARLRATFAGLYSLDV GEEGDQAI AEALAAPS RFVLKPQREGGNNLYGEEMVQALKQLKDSEERASYILME

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

	KIEPEPFENCLLRPGSPARVVQCISELGIFGVYVRQEKTLMNKHVGHLLRTKAIEHA DGGVAAGVAVLDPYPVTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

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

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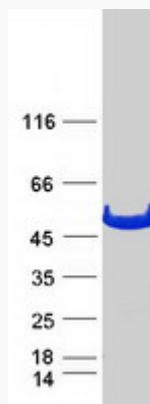
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UniProt ID

P48637

SDS-PAGE

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