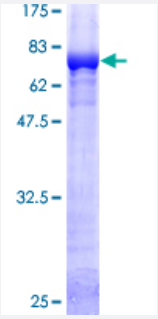
Full-Length

GSS (Human) Recombinant Protein (P02)

Catalog # H00002937-P02 Size 25 ug, 10 ug

Applications



Specification

Product Description	Human GSS full-length ORF (AAH07927, 1 a.a. - 474 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MATNWGSLLQDKQQLEELARQAVDRALAEGVLLRTSQEPTSSEVVSYAPFTLFPSLVPSALLEQ AYAVQMDFNLLVDAVSQNAAFLEQTLSSTIKQDDFTARLFDIHKQVLKEGIAQTVFLGLNRSDYMF QRSADGSPALKQIEINTISASFGGLASRTPAVHRHVLSVLSKTKEAGKILSNNPSKGLALGIAKAWE LYGSPNALVLLIAQEKERNIFDQRAIENELLARNIHVIRRTFEDISEKGSLDQDRRLFVDGQEIAVVYF RDGYMPRQYSLQNWEARLLLERSHAAKCPDIATQLAGTKKVQQELSRPGMLEMLLPGQPEAVA RLRATFAGLYSLDVGEEGDQAIAEALAAPSRFVLKPQREGGGNNLYGEEMVQALKQLKDSEERA SYILMEKIEPEPFENCLLRPGSPARVVQCISELGIFGVYVRQEKTLVMNKHVGHLLRTKAIEHADGG VAAGVAVLDNPYPV
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	77.88
Interspecies Antigen Sequence	Mouse (89); Rat (88)
Preparation Method	*in vitro* wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.

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Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — GSS

Entrez GeneID	2937
GeneBank Accession#	BC007927
Protein Accession#	AAH07927
Gene Name	GSS
Gene Alias	GSHS, MGC14098
Gene Description	glutathione synthetase
Omim ID	231900 266130 601002
Gene Ontology	Hyperlink
Gene Summary	Glutathione is important for a variety of biological functions, including protection of cells from oxid ative 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 biosynt hesis, which is the ATP-dependent conversion of gamma-L-glutamyl-L-cysteine to glutathione. De fects in this gene are a cause of glutathione synthetase deficiency. [provided by RefSeq
Other Designations	GSH synthetase|OTTHUMP00000030711|glutathione synthase

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Pathway

- Glutathione metabolism
- Metabolic pathways

Disease

- Alzheimer disease
- Amyotrophic lateral sclerosis
- Cardiovascular Diseases
- Cognition
- Coronary Artery Disease
- Diabetes Mellitus
- Edema
- Genetic Predisposition to Disease
- Kidney Failure
- Lung Neoplasms

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