

# Recombinant Full Length Human GLS2 Protein, GST-tagged

Cat. No. GLS2-5350HF Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Human GLS2 full-length ORF (1 a.a. - 602 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Species</b>	Human
<b>Source</b>	In Vitro Cell Free System
<b>Protein Length</b>	602 amino acids
<b>Description</b>	The protein encoded by this gene is a mitochondrial phosphate-activated glutaminase that catalyzes the hydrolysis of glutamine to stoichiometric amounts of glutamate and ammonia. This protein is functionally similar to the kidney glutaminase but is a little smaller in size. Originally thought to be liver-specific, this protein has been found in other tissues as well. At least one transcribed pseudogene has been found for this gene. [provided by RefSeq]
<b>Molecular Mass</b>	92.7 kDa
<b>AA Sequence</b>	MRSMKALQKALS RAGSHCGRGGWGHPSRSPLLGGGVRHHLSEAAAQGRET PSH QPQH QDHDSS ESGMLSRLGDLLFYTIAEGQERIPHKFTTALKATGLQTSDPRLRDC MSEMHRV VQESSSGLLDRDLFRKCVSSNIVLLTQAFRKKFVIPDFEEFTGHVDRIF EDVKELTGGKVAAYIPQLAKSNPDLWGVSLCTVDGQRH SVGHTKIPFCLQSCVKPLT YAISISTLGT DYVHKFVGKEPSGLRYNKL SLNEEGIPHNPMVNAGAI VVSSLIKMDCN KAEKDFV LQYLNKMAGNEYMGFSNATFQSEKETGDRNYAIGYYLKEKKCFPKGVD MMAALDLYFQLCSVEVTCESGSVMAATLANGGICPITGESVLSAEAVRNTLSLMHSC

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GMYDFSGQFAFHVGLPAKSAVSGAILLVVPNVMGMMCLSPPLDKLGNSHRGTSFC  
 QKLVSLFNFHNYDNLRHCAKLDPRREGAEIRNKTVVNLLFAAYSQDVSALRRFALS  
 AMDMEQKDYDSRTALHVAAAEGHIEVVKFLIEACKVNPFAKDRWGNIPLDDAVQFN  
 HLEVVKLLQDYQDSYTLSETQAEAAAALSKENLESMV

<b>Applications</b>	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
<b>Notes</b>	Best use within three months from the date of receipt of this protein.
<b>Storage</b>	Store at -80 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.

## GENE INFORMATION

<b>Gene Name</b>	GLS2 glutaminase 2 (liver, mitochondrial) [ Homo sapiens ]
<b>Official Symbol</b>	GLS2
<b>Synonyms</b>	GLS2; glutaminase 2 (liver, mitochondrial); glutaminase liver isoform, mitochondrial; GA; GLS; hLGA; LGA; L-glutaminase; glutaminase I; glutaminase GA; breast cell glutaminase; L-glutamine amidohydrolase; phosphate-activated glutaminase; phosphate-dependent glutaminase; MGC71567;
<b>Gene ID</b>	27165
<b>mRNA Refseq</b>	NM_013267

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**Protein Refseq** NP\_037399

**MIM** 606365

**UniProt ID** Q9UI32

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