

Recombinant Full Length Human GLS2 Protein, GST-tagged

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

SPECIFICATION

Product Overview	Human GLS2 full-length ORF (1 a.a. - 602 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	602 amino acids
Description	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]
Molecular Mass	92.7 kDa
AA Sequence	MRSMKALQKALSRAGSHCGRGGWGHPSRSPLLGGGVRRHHLSEAAAQGRETPHSH QPQHQQDHDSSGMLSRDLGLFYTIAEGQERIPHKFTTALKATGLQTSDPRLRDC MSEMHRRVQESSGGLDRDLFRKCVSSNIVLLTQAFRKKFVIPDFEEFTGHVDRI EDVKELTGGKVAAYIPQLAKSNPDLWGVSLCTVDGQRHHSVGH TKIPFCLQSCVKPLT YAISISTLGT DYVHKFVGKEPSGLRYNKL SLNEEGIPHPNPMVNAGAIVVSSLIKMDCN KA EKFD FVLQYLNKMAGNEYMGFSNATFQSEKETGDRNYAIGYYLKEKKCFPKGVD MMAALDLYFQLCSVEVTCESGSVMAATLANGGICPITGESVLSAEVRNTLSLMHSC

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GMYDFSGQFAFHVGLPAKSAVSGAILLVVPNVMGMMCLSPPLDKLGNSHRGTSFC
 QKLVSLFNFHNYDNLRHCARKLDPRREGAEIRNKTVVNLLFAAYS GDVSALRRFALS
 AMDMEQKDYDSRTALHVAAAEGHIEVVKFLIEACKVNPFAKDRWGNIPLDDAVQFN
 HLEVVKLLQDYQDSYTLSETQAEAAAALSKENLESMV

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

Notes
 Best use within three months from the date of receipt of this protein.

Storage
 Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer
 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name
 GLS2 glutaminase 2 (liver, mitochondrial) [Homo sapiens]

Official Symbol
 GLS2

Synonyms
 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;

Gene ID
 27165

mRNA Refseq
 NM_013267

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Protein Refseq	NP_037399
MIM	606365
UniProt ID	Q9UI32

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