

Recombinant Full Length Human GLS Protein

Cat. No. GLS-270HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human GLS Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
ProteinLength	1-669 a.a.
Description	This gene encodes the K-type mitochondrial glutaminase. The encoded protein is an phosphate-activated amidohydrolase that catalyzes the hydrolysis of glutamine to glutamate and ammonia. This protein is primarily expressed in the brain and kidney plays an essential role in generating energy for metabolism, synthesizing the brain neurotransmitter glutamate and maintaining acid-base balance in the kidney. Alternate splicing results in multiple transcript variants.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	73.3 kDa
AA Sequence	MMRLRGSGMLRDLLLRSPAGVSATLRRAPLVTLCCRPRGGGRPAAGPAAARLH PWWGGGGWPAEPLAR GLSSSPSEILQELGKGSTHPQPGVSPPAAPAAPGPKDGP GETDAFGNSEGKELVASGENKIKQGLLPSE DLLFYTIAEGQEKIPVHKFITALKSTG LRTSDPRLKECMDMLRLTLQTTSDGVMLDKDLFKKCVQSNIVL LTQAFRRKFVIPDF MSFTSHIDELYESAkkQSGGKVADYIPQLAKFSPDLWGVSVCTVDGQRHSTGDTKV

 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

PFCLQSCVKPLKYAIAVNDLGTEYVHRYVGKEPSGLRFNKLFLNEDDKPHNPMVNA
 GAIVVTSLIKQGVN NAEKFDYVMQFLNKMAGNEYVGFSNATFQSERESGDRNFAIG
 YYLKEKKCFPEGTDMVGILDFYFQLCSI EVTCEASVMAATLANGGFCPITGERVLS
 PEAVRNTLSLMHSCGMYDFSGQFAFHVGLPAKSGVAGGILL VVPNVMGMMCWSP
 PLDKMGNSVKGIHFCHDLVSLCNFHNNDNLRHFAKKLDPRREGGDQRVKSVINLLF
 A AYTGDVSALRRFALSAMDMEQRDYDSRTALHVAAGHVEVVKFLLEACKVNPF
 PKDRWNNTPMDEALHF
 GHHDVFKILQEYQVQYTPQGSDNGKENQTVHKNLDGLLSGPTRTRRLEQKLISEE
 DLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Pathways	Alanine, aspartate and glutamate metabolism, Arginine and proline metabolism, D-Glutamine and D-glutamate metabolism, Metabolic pathways, Nitrogen metabolism
Full Length	Full L.

GENE INFORMATION

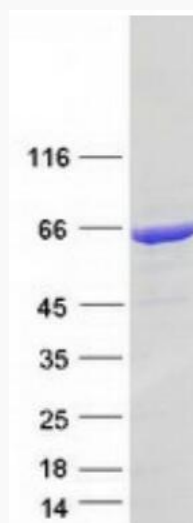
Gene Name GLS glutaminase [Homo sapiens (human)]

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Official Symbol	GLS
Synonyms	GAC; GAM; KGA; GLS1; AAD20; DEE71; GDPAG; CASGID; EIEE71
Gene ID	2744
mRNA Refseq	NM_014905.5
Protein Refseq	NP_055720.3
MIM	138280
UniProt ID	O94925



Coomassie blue staining of purified GLS protein.

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