

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

Cat. No. GLS-6588H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	GLS MS Standard C13 and N15-labeled recombinant protein (NP_055720) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	73.3 kDa
AA Sequence	MMRLRGSGMLRDLLLRSPAGVSATLRRAPLVTLRPRGGGRPAAGPAAARLH PWWGGGGWPAEPLARGLSSSPSEILQELGKGSTHPQPGVSPPAAPGPKDGP GETDAFGNSEGKELVASGENKIKQGLLPSLEDLLFYTIAEGQEKIPVHKFITALKSTGL RTSDPRLKECMDMLRLTLQTTSBGVMDKDLFKKCVQSNIVLLTQAFRRKFVIPDFM SFTSHIDELYESAKKQSGGKVADYIPQLAKFSPDLWGVSVCTVDGQRHSTGDTKVP FCLQSCVKPLKYAIAVNDLGTEYVHRYVGKEPSGLRFNKLFLNEDDKPHNPMVNAG AIVTSLIKQGVNNAEKFDYVMQFLNKMAGNEYVGFSNATFQSERESGDRNFAIGYY

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LKEKKCFPEGTDMVGILDFYFQLCSIEVTCEASVMAATLANGGFCPITGERVLSPEA
VRNTLSLMHSCGMYDFSGQFAFHVGLPAKSGVAGGILLVVPNVMMGMMCWSPPLDK
MGNSVKGIHFCHDLVSLCNFHNVDNLRHFAKKLDPRREGGDQRVKSVINLLFAAYT
GDVSALRRFALSAMDMEQRDYDSRTALHVAAAEGHVEVVKFLEACKVNPFPKDR
WNNTPMDEALHFGHHDVFKILQEYQVQYTPQGSDNGKENQTVHKNLDGLLSGPT
RTRRLEQKLISEEDLAANDILDYKDDDDKV

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 GLS glutaminase [Homo sapiens (human)]

Official Symbol GLS

Synonyms GLS; glutaminase; glutaminase kidney isoform, mitochondrial; GLS1; KIAA0838; K-glutaminase; glutaminase C; L-glutamine amidohydrolase; glutaminase, phosphate-activated; GAC; GAM; KGA; AAD20; FLJ10358; FLJ41499; DKFZp686D14231; DKFZp686O15119;

Gene ID 2744

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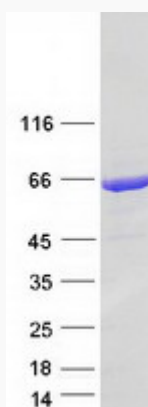
mRNA Refseq NM_014905

Protein Refseq NP_055720

MIM 138280

UniProt ID O94925

SDS-PAGE



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