

Product datasheet for PH306265

Glutaminase (GLS) (NM_014905) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	GLS MS Standard C13 and N15-labeled recombinant protein (NP_055720)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC206265
Predicted MW:	73.3 kDa
Protein Sequence:	>RC206265 representing NM_014905 Red=Cloning site Green=Tags(s)

MMRLRGSGLRDLRLRSPAGVSATLRRRAQPLVTLRPRGGRPAAGPAAAARLHPWWGGGWPAPAEPLAR
GLSSSPSEILQELGKGSTHPQPGVSPPAAPAGPKDGPGETDAFGNSEGKELVASGENKIKQGLLPSLE
DLLFYTIAEGQEKIPVHKFITALKSTGLRTSDPRLKECMDMLRLTLQTTSDGVMLDKDLFKKCVQSNIVL
LTQAFRRKFVIPDFMSFTSHIDELYESAKKQSGGKVADYIPQLAKFSPDLWGVSVCTVDGQRHSTGDTKV
PFCLQSCVKPLKYAIAVNDLGTEYVHRYVGKEPSGLRFNKLFLNEDDKPHNPMVNAGAI VVTSLIKQGVN
NAEKFDYVMQFLNKMAGNEYVGFSNATFQSERESGDRNFAIGYYLKEKKCFPEGTDMVGILDYFQLCSI
EVTCEASVMAATLANGGFCPITGERVL SPEAVRNTLSLMHSCGMYDFSGQFAFHVGLPAKSGVAGGILL
VVPNVMGMMCWSPPLDKMGNSVKGIFHCHDLVSLCNFHNYDNLRFHAKKLDPRREGDQVRKSVINLLFA
AYTGDVSALRRFALSAMDMEQRDYDSRTALHVAAEGHVEVVKFLLLEACKVNPFPKDRWNTPMDEALHF
GHHDVFKILQEYQVYTPQGDSDNGKENQTVHKNLDGLL

SGPTRTRRLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_055720
RefSeq Size:	4799



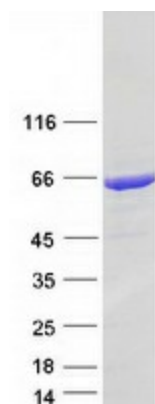
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RefSeq ORF:	2007
Synonyms:	AAD20; CASGID; DEE71; EIEE71; GAC; GAM; GDPAG; GLS1; KGA
Locus ID:	2744
UniProt ID:	O94925
Cytogenetics:	2q32.2

Summary: 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. [provided by RefSeq, Jan 2012]

Protein Pathways: Alanine, aspartate and glutamate metabolism, Arginine and proline metabolism, D-Glutamine and D-glutamate metabolism, Metabolic pathways, Nitrogen metabolism

Product images:



Coomassie blue staining of purified GLS protein (Cat# [TP306265]). The protein was produced from HEK293T cells transfected with GLS cDNA clone (Cat# [RC206265]) using MegaTran 2.0 (Cat# [TT210002]).