

Recombinant Human GLS protein, His-tagged

Cat. No. GLS-1608H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human GLS protein (370-669aa) was fused to His-tag and expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	370-669 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	The purified protein was Lyophilized from sterile PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH7.4). 5% trehalose and 5% mannitol are added as protectants before lyophilization.
Molecular Mass	35 kDa
AA Sequence	YVGFSNATFQSERESGDRNFAIGYYLKEKKCFPEGTDMVGILDFYFQLCSIEVTCS ASVMAATLANGGFCPITGERVLSPEAVRNTLSLMHSCGMYDFSGQFAFHVGLPAKS GVAGGILLVVPNVMMGMCWSPPLDKMGNSVKGIHFCHDLVSLCNFHNVDNLRHFA

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	KKLDPRREGGDQRVKSVINLLFAAYTGDVSALRRFALSAMDMEQRDYDSRTALHVA AAEGHVEVVKFLLLEACKVNPFPKDRWNNTPM
Purity	90%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Storage	Store for up to 12 months at -20 to -80 centigrade as lyophilized powder. Short-term storage: Store at 2-8 centigrade for (1-2 weeks). Long-term storage: Aliquot and store at -20 to -80 centigrade for up to 3 months, buffer containing 50% glycerol is recommended for reconstitution. Avoid repeat freeze-thaw cycles.
Reconstitution	Reconstitute at 0.25 g/μl in 200 μl sterile water for short-term storage. Reconstitution with 200 μl 50% glycerol solution is recommended for longer term storage. If a different concentration is needed for your purposes please adjust the reconstitution
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

GENE INFORMATION

Gene Name	GLS
Official Symbol	GLS
Synonyms	GAC; GAM; KGA; GLS1; AAD20; GDPAG; CASGID; EIEE71
Gene ID	2744
mRNA Refseq	NM_014905.5

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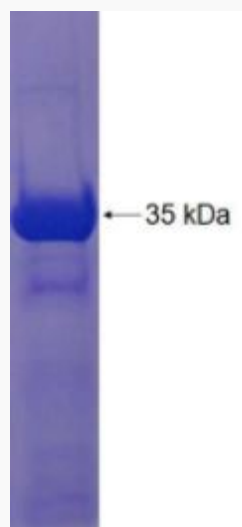
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Protein Refseq NP_055720.3

MIM 138280

UniProt ID O94925

SDS-PAGE of GLS-1608H



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