Recombinant Human GLS protein, His & T7-tagged

Cat. No. GLS-1607H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human GLS aa. (Ile221~Leu533 (Accession # O94925)) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Ile221~Leu533
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	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 38.1kDa
Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Purity	>90%
Applications	SDS-PAGE; WB; ELISA; IP.

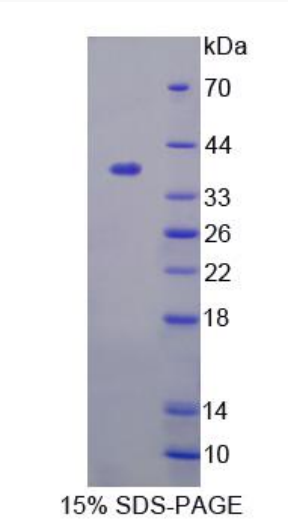
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Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.
Isoelectric Point	5.9

GENE INFORMATION

Gene Name	GLS glutaminase [Homo sapiens (human)]
Official Symbol	GLS
Synonyms	GLS; glutaminase; GAC; GAM; KGA; GLS1; AAD20; glutaminase kidney isoform, mitochondrial; K-glutaminase; L-glutamine amidohydrolase; glutaminase C; glutaminase, phosphate-activated
Gene ID	2744
mRNA Refseq	NM_001256310.1
Protein Refseq	NP_001243239.1
UniProt ID	O94925

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SDS-PAGE	 15% SDS-PAGE

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