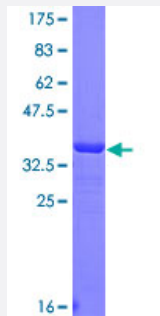


GLS (Human) Recombinant Protein (Q01)

Catalog # H00002744-Q01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human GLS partial ORF (NP_055720, 580 a.a. - 669 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	EQRDYDSRTALHVAAGHVEVVKFLLEACKVNPFPKDRWNNTPMDEALHFGHHDVFKILQEYQVQYTPQGSDNGKENQTVHKNLDGLL
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	35.64
Interspecies Antigen Sequence	Mouse (98)
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — GLS

Entrez GeneID [2744](#)

GeneBank Accession# [NM_014905](#)

Protein Accession# [NP_055720](#)

Gene Name GLS

Gene Alias AAD20, DKFZp686O15119, FLJ10358, GLS1, KIAA0838

Gene Description glutaminase

Omim ID [138280](#)

Gene Ontology [Hyperlink](#)

Gene Summary Sahai (1983) [PubMed 6825316] demonstrated phosphate-activated glutaminase (EC 3.5.1.2) in human platelets. It is the major enzyme yielding glutamate from glutamine. Significance of the enzyme derives from its possible implication in behavior disturbances in which glutamate acts as a neurotransmitter (Prusiner, 1981). High heritability of platelet glutaminase was indicated by studies of Sahai and Vogel (1983) [PubMed 6682827] who found an intraclass correlation coefficient of 0.96 for monozygotic twins and 0.53 for dizygotic twins.[supplied by OMIM]

Other Designations K-glutaminase|L-glutamine amidohydrolase|glutaminase C|glutaminase, phosphate-activated

Pathway

- [Alanine](#)
- [Arginine and proline metabolism](#)
- [D-Glutamine and D-glutamate metabolism](#)

- [Metabolic pathways](#)
- [Nitrogen metabolism](#)

Disease

- [Birth Weight](#)
- [Cognition](#)
- [Genetic Predisposition to Disease](#)
- [Glioblastoma](#)
- [Glioma](#)
- [Hepatic Encephalopathy](#)
- [Leukemia](#)
- [Liver Cirrhosis](#)
- [Meningeal Neoplasms](#)
- [Meningioma](#)
- [Schizophrenia](#)
- [Schizophrenic Psychology](#)
- [Weight Gain](#)