

Human Glutamine synthetase ELISA Kit | GLUL elisa kit

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CATALOG #
AAA17737

REACTIVITY
Human

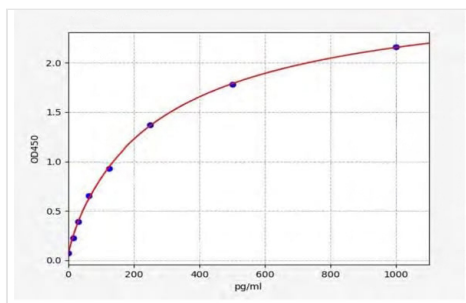
PRODUCT SYNONYMS

Glutamine synthetase; Human Glutamine synthetase ELISA Kit; GLUL/GS/GLNS/Glutamine synthetase/Glutamate--ammonia ligase; GLUL elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Specifically recognize GLUL, no obvious cross reaction with other analogues
Sequence Length	373
Assay Type	Sandwich
Samples	Serum, plasma, cell culture supernatant and other biological samples
Detection Range	15.625-1000pg/ml
Sensitivity	9.375pg/ml
Intra-assay Precision	Intra-assay Precision: samples with low, medium and high concentration are tested 20 times on same plate.
Inter-assay Precision	Inter-assay Precision: samples with low, medium and high concentration are tested 20 times on three different plates.
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for GLUL elisa kit	Background: Glutamine synthetase, referred to for brevity as GS, catalyzes the amidation of glutamate to glutamine. Glutamine is of major importance in a variety of biosynthetic pathways including the synthesis of proteins, mucopolysaccharides, and nucleic acids. GS is present throughout the nervous system of higher vertebrates and is a key enzyme in the "small glutamate compartment" that functions in salvaging neuronally released neurotransmitter metabolites (such as glutamate). Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti GLUL antibody was pre-coated onto the 96-well plate. The biotin conjugated anti GLUL antibody was used as the detection antibody. The standards and pilot samples were added to the wells subsequently. After incubation, unbound conjugates were removed by wash buffer. Then, biotinylated detection antibody was added to bind with GLUL conjugated on coated antibody. After washing off unbound conjugates, HRP-Streptavidin was added. After a third washing, TMB substrates were added to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that turned yellow after adding a stop solution. Read the O.D. absorbance at 450nm in a microplate reader. The concentration of GLUL in the sample was calculated by drawing a standard curve. The concentration of the target substance is proportional to the OD450 value.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	74271837
NCBI GeneID	2752
NCBI Accession #	NP_001028216.1
NCBI GenBank Nucleotide #	NM_001033044.3
Molecular Weight	42,064 Da
NCBI Official Full Name	glutamine synthetase
NCBI Official Synonym Full Names	glutamate-ammonia ligase
NCBI Official Symbol	GLUL
NCBI Official Synonym Symbols	GS; GLNS; PIG43; PIG59
NCBI Protein Information	glutamine synthetase
UniProt Protein Name	Glutamine synthetase
UniProt Gene Name	GLUL
UniProt Synonym Gene Names	GLNS; GS
UniProt Entry Name	GLNA_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.