

Goat Guanosine 5-triphosphate Cyclohydrolase1 ELISA Kit | GCH1 elisa kit

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CATALOG #
AAA93639

REACTIVITY
Goat

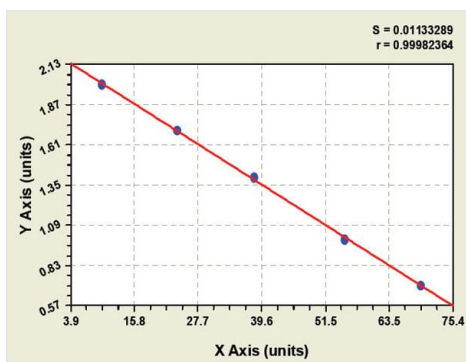
PRODUCT SYNONYMS

Guanosine 5-triphosphate Cyclohydrolase1; Goat Guanosine 5-triphosphate Cyclohydrolase1 ELISA Kit; GCH1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Goat
Samples	Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate
Assay Type	Competitive
Sensitivity	1.0 ng/mL.
Intended Uses	This GCH1 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Goat GCH1. This ELISA kit for research use only, not for therapeutic applications!
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for GCH1 elisa kit

Principle of the Assay: GCH1 ELISA kit applies the competitive enzyme immunoassay technique utilizing a monoclonal anti-GCH1 antibody and an GCH1-HRP conjugate. The assay sample and buffer are incubated together with GCH1-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the GCH1 concentration since GCH1 from samples and GCH1-HRP conjugate compete for the anti-GCH1 antibody binding site. Since the number of sites is limited, as more sites are occupied by GCH1 from the sample, fewer sites are left to bind GCH1-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The GCH1 concentration in each sample is interpolated from this standard curve.

Product Categories/Family for GCH1 elisa kit

Neurobiology

NCBI AND UNIPROT INFORMATION

NCBI GI #	66932972
NCBI GeneID	2643
NCBI Accession #	NP_001019242.1
NCBI GenBank Nucleotide #	NM_001024071.1
Molecular Weight	25,775 Da
NCBI Official Full Name	GTP cyclohydrolase 1 isoform 3
NCBI Official Synonym Full Names	GTP cyclohydrolase 1
NCBI Official Symbol	GCH1
NCBI Official Synonym Symbols	GCH; DYT5; DYT14; DYT5a; GTPCH1; HPABH4B; GTP-CH-1
NCBI Protein Information	GTP cyclohydrolase 1; GTP-CH-I; dystonia 14; GTP cyclohydrolase I; guanosine 5'-triphosphate cyclohydrolase I
UniProt Protein Name	GTP cyclohydrolase 1
UniProt Gene Name	GCH1
UniProt Synonym Gene Names	DYT5; GCH; GTP-CH-I
UniProt Entry Name	GCH1_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.

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Online datasheet: <https://stage.aaabiotech.com/gch1-goat-elisa-kits/guanosine-5-triphosphate-cyclohydrolase1/93639>