

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

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CATALOG #
AAA93437

REACTIVITY
Canine

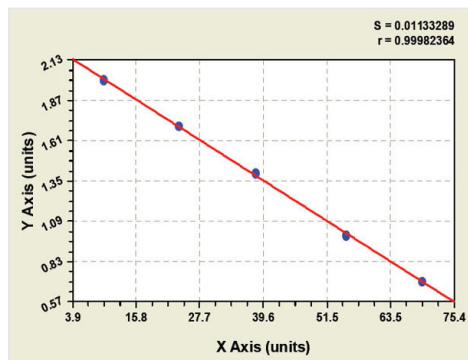
PRODUCT SYNONYMS

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

PRODUCT SPECIFICATIONS

Reactivity	Canine
Samples	Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate
Assay Type	Sandwich
Detection Range	50-1000ng/mL
Sensitivity	1.0ng/mL
Intended Uses	This GCH1 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Canine 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.

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-canine-elisa-kits/guanosine-5-triphosphate-cyclohydrolase1/93437>