

Mouse Tryptophan 5-Hydroxylase 1 (TPH1) ELISA Kit | TPH1 elisa kit

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CATALOG #
AAA332083

REACTIVITY
Mouse

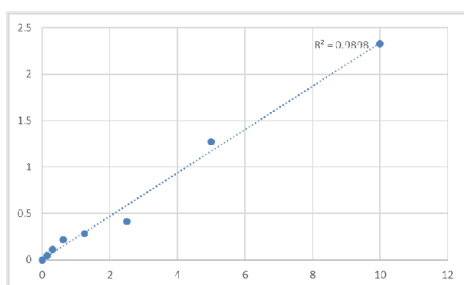
PRODUCT SYNONYMS

Tryptophan 5-Hydroxylase 1 (TPH1); Mouse Tryptophan 5-Hydroxylase 1 (TPH1) ELISA Kit; TPH1; MGC119994; TPRH; TRPH; L-tryptophan hydroxylase; indoleacetic acid-5-hydroxylase; tryptophan hydroxylase (tryptophan 5-monoxygenase); TPH1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	Mouse Tryptophan 5-hydroxylase 1 (TPH1) ELISA Kit has high sensitivity and excellent specificity for detection of Mouse TPH1. No significant cross-reactivity or interference between Mouse TPH1 and analogues was observed.
Sequence Length	447
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Mouse Tryptophan 5-hydroxylase 1 (TPH1) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for TPH1 elisa kit	Description: This Mouse Tryptophan 5-hydroxylase 1 (TPH1) ELISA Kit employs a two-site sandwich ELISA to quantitate TPH1 in samples. An antibody specific for TPH1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any TPH1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for TPH1 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of TPH1 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: TPH1 encodes a member of the aromatic amino acid hydroxylase family. The encoded protein catalyzes the first and rate limiting step in the biosynthesis of serotonin, an important hormone and neurotransmitter. Mutations in this gene have been associated with an elevated risk for a variety of diseases and disorders, including schizophrenia, somatic anxiety, anger-related traits, bipolar disorder, suicidal behavior, addictions, and others. Tryptophan hydroxylase is important for the brain. However, Tph1 is not detected in the brain. Nevertheless the effect of variations in the TPH1 gene on brain-related variables, such as personality traits and neuropsychiatric disorders, has been studied. One human mutant of TPH1, A218C found in intron 7, is highly associated with schizophrenia.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	209862985
NCBI GeneID	21990
NCBI Accession #	NP_001129556.1
NCBI GenBank Nucleotide #	NP_001129556.1
UniProt Accession #	P17532
NCBI Official Full Name	tryptophan 5-hydroxylase 1 isoform 1
NCBI Official Synonym Full Names	tryptophan hydroxylase 1
NCBI Official Symbol	Tph1
NCBI Official Synonym Symbols	Tph
NCBI Protein Information	tryptophan 5-hydroxylase 1
UniProt Protein Name	Tryptophan 5-hydroxylase 1
UniProt Gene Name	Tph1
UniProt Synonym Gene Names	Tph

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/mouse-elisa-kits/tryptophan-5-hydroxylase-1-tph1/332083>