

Rat Tryptophan Hydroxylase 2 (TPH2) ELISA Kit | TPH2 elisa kit

Rat Tryptophan Hydroxylase 2 (TPH2) ELISA Kit

CATALOG #
AAA65493

REACTIVITY
Rat

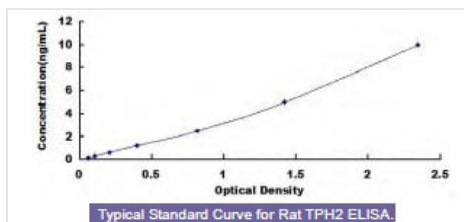
PRODUCT SYNONYMS

Tryptophan Hydroxylase 2 (TPH2); Rat Tryptophan Hydroxylase 2 (TPH2) ELISA Kit; NTPH; Neuronal tryptophan hydroxylase; Tryptophan 5-monoxygenase 2; TPH2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of TPH2. No significant cross-reactivity or interference between TPH2 and analogues was observed.
Sequence Length	485
Samples	Tissue homogenates, cell lysates and other biological fluids.
Assay Type	Sandwich
Detection Range	0.156-10ng/mL
Sensitivity	0.072ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level TPH2 were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level TPH2 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	For unopened kit, all reagents should be kept according to the labels on vials. The TMB Substrate, Wash Buffer, Stop Solution should be stored at 4 degree C. All others should be stored at -20 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for TPH2 elisa kit	Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of TPH2 in rat tissue homogenates, cell lysates and other biological fluids. Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to TPH2. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to TPH2. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain TPH2, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm +/- 10nm. The concentration of TPH2 in the samples is then determined by comparing the O.D. of the samples to the standard curve.
--	--

NCBI AND UNIPROT INFORMATION

NCBI GI #	27753970
NCBI GeneID	317675
NCBI Accession #	NP_776211.1
NCBI GenBank Nucleotide #	NM_173839.2
UniProt Accession #	Q8CGU9
Molecular Weight	55,621 Da
NCBI Official Full Name	tryptophan 5-hydroxylase 2
NCBI Official Synonym Full Names	tryptophan hydroxylase 2
NCBI Official Symbol	Tph2
NCBI Official Synonym Symbols	Ntph
NCBI Protein Information	tryptophan 5-hydroxylase 2
UniProt Protein Name	Tryptophan 5-hydroxylase 2
UniProt Gene Name	Tph2
UniProt Synonym Gene Names	Ntph

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.