

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

Mouse Tryptophan 5-hydroxylase 1 (TPH1) ELISA Kit

CATALOG #  
**AAA245335**

REACTIVITY  
**Mouse**

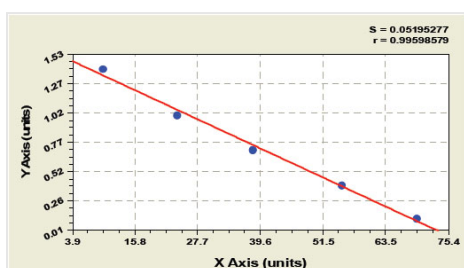
### PRODUCT SYNONYMS

Tryptophan 5-hydroxylase 1 (TPH1); Mouse Tryptophan 5-hydroxylase 1 (TPH1) ELISA Kit; TPH1 elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                        |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Mouse                                                                                                                                                                                  |
| Samples                 | Serum, plasma, cell culture supernatants, body fluid and tissue homogenate                                                                                                             |
| Sensitivity             | 0.1 ng/mL.                                                                                                                                                                             |
| Assay Type              | Competitive                                                                                                                                                                            |
| Intended Uses           | This TPH1 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Mouse TPH1. This ELISA kit for research use only, not for therapeutic applications! |
| Preparation and Storage | Store all reagents at 2-8 degree C.                                                                                                                                                    |

### IMAGES



### ADDITIONAL INFORMATION

#### Related Product Information for TPH1 elisa kit

Principle of the Assay: TPH1 ELISA kit applies the competitive enzyme immunoassay technique utilizing a monoclonal anti-TPH1 antibody and an TPH1-HRP conjugate. The assay sample and buffer are incubated together with TPH1-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 TPH1 concentration since TPH1 from samples and TPH1-HRP conjugate compete for the anti-TPH1 antibody binding site. Since the number of sites is limited, as more sites are occupied by TPH1 from the sample, fewer sites are left to bind TPH1-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The TPH1 concentration in each sample is interpolated from this standard curve.

### NCBI AND UNIPROT INFORMATION

|             |         |
|-------------|---------|
| NCBI GI #   | 4759248 |
| NCBI GeneID | 7166    |

|                                  |                                                                                                                                                                        |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI Accession #                 | NP_004170.1                                                                                                                                                            |
| NCBI GenBank Nucleotide #        | NM_004179.2                                                                                                                                                            |
| Molecular Weight                 | 53,394 Da                                                                                                                                                              |
| NCBI Official Full Name          | tryptophan 5-hydroxylase 1                                                                                                                                             |
| NCBI Official Synonym Full Names | tryptophan hydroxylase 1                                                                                                                                               |
| NCBI Official Symbol             | TPH1                                                                                                                                                                   |
| NCBI Official Synonym Symbols    | TPRH; TRPH                                                                                                                                                             |
| NCBI Protein Information         | tryptophan 5-hydroxylase 1; L-tryptophan hydroxylase; tryptophan 5-monoxygenase 1; indoleacetic acid-5-hydroxylase; tryptophan hydroxylase (tryptophan 5-monoxygenase) |
| UniProt Protein Name             | Tryptophan 5-hydroxylase 1                                                                                                                                             |
| UniProt Gene Name                | TPH1                                                                                                                                                                   |
| UniProt Synonym Gene Names       | TPH; TPRH; TRPH                                                                                                                                                        |
| UniProt Entry Name               | TPH1_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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)  
Online datasheet: <https://stage.aaabiotech.com/mouse-elisa-kits/tryptophan-5-hydroxylase-1-tpH1/245335>