

Mouse Thyrotropin-releasing hormone (TRH) ELISA Kit

Catalog No: #EK6008

Package Size: #EK6008-1 48T #EK6008-2 96T

Orders: order@signalwayantibody.comSupport: tech@signalwayantibody.com

Description

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| Product Name | Mouse Thyrotropin-releasing hormone (TRH) ELISA Kit |
| Brief Description | ELISA Kit |
| Applications | ELISA |
| Species Reactivity | Mouse (<i>Mus musculus</i>) |
| Other Names | MGC125964; MGC125965; |
| Accession No. | Q62361 |
| Uniprot | Q62361 |
| GeneID | 22044; |
| Storage | <p>The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.</p> <p>The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).</p> |

Application Details

Detect Range:6.17-500 pg/mL

Sensitivity:2.39 pg/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate TRH in samples. An antibody specific for TRH has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyTRH present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for TRH 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 TRH bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Thyrotropin releasing hormone, a hormone secreted by the hypothalamus that stimulates release of thyrotropin. TRH can also be detected in other areas of the body including the gastrointestinal system and pancreatic islets. Thyroid-stimulating hormone, also known as thyrotropin, is secreted from cells in the anterior pituitary called thyrotrophs. The most important controller of TSH secretion is thyroid-releasing hormone.

TRH is produced by the hypothalamus in medial neurons of the paraventricular nucleus. Initially, it is synthesized as a 242 amino acid precursor polypeptide that contains 6 copies of the sequence -Gln-His-Pro-Gly-, flanked by di-basic peptides that are later processed through proteolysis to give the mature TRH molecule.

Note: This product is for in vitro research use only