

General 5-hydroxytryptamine ELISA Kit | ST/5-HT elisa kit

5-hydroxytryptamine ELISA Kit

CATALOG #
AAA17725

REACTIVITY
General

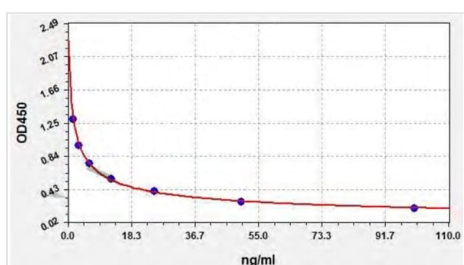
PRODUCT SYNONYMS

5-hydroxytryptamine; 5-hydroxytryptamine ELISA Kit; ST/5-HT (Serotonin/5-Hydroxytryptamine); ST/5-HT elisa kit

PRODUCT SPECIFICATIONS

Reactivity	General
Specificity	Specifically recognize ST/5-HT, no obvious cross reaction with other analogues
Assay Type	Competitive
Samples	Serum, plasma, cell culture supernatant and other biological samples
Detection Range	1.563-100ng/ml
Sensitivity	0.938ng/ml
Intra-assay Precision	Intra-assay Precision: samples with low, medium and high concentration are tested 20 times on same plate.
Inter-assay Precision	Inter-assay Precision: samples with low, medium and high concentration are tested 20 times on three different plates.
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for ST/5-HT elisa kit	Background: Serotonin (5-hydroxytryptamine, 5-HT) is a central nervous system monoamine implicated in a number of physiological functions, including sleep, mood, appetite, anxiety, and neurovegetative control. Serotonin acts through the activation of G protein receptors called serotonin receptors (5-HTRs). Seven 5-HTR subclasses (5-HTR1-7) have been described to date. Serotonin receptor 4 (5-HTR4) couples to Gα_s, with stimulation of the receptor leading to adenylyl cyclase activation, elevation of cyclic AMP levels and downstream PKA activation. The corresponding HTR4 gene exhibits a complex structure, which includes a large number of splice variants that seem to share the same pharmacological properties. 5-HTR4 is one of several receptors implicated in cognition, depression, and the development of Alzheimer's disease. Principle of the Assay: This kit was based on Competitive-ELISA detection method. The microtiter plate provided in this kit has been pre-coated with ST/5-HT. During the reaction, ST/5-HT in the sample or standard competes with a fixed amount of ST/5-HT on the solid phase supporter for sites on the Biotinylated Detection Antibody specific to ST/5-HT. Excess conjugate and unbound sample or standard are washed from the plate, and HRP-Streptavidin (SABC) is added to each microplate well and incubated. Then TMB substrate solution is added to each well. The enzyme-substrate reaction is terminated by the addition of a acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm. The concentration of ST/5-HT in the samples is then determined by comparing the OD of the samples to the standard curve. The concentration of the target substance was inversely proportional to the OD₄₅₀ value.
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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/st-5-ht-general-elisa-kits/5-hydroxytryptamine/17725>