

Human Tryptophan ELISA Kit

Tryptophan ELISA, 96 well

CATALOG #
AAA14216

REACTIVITY
Human

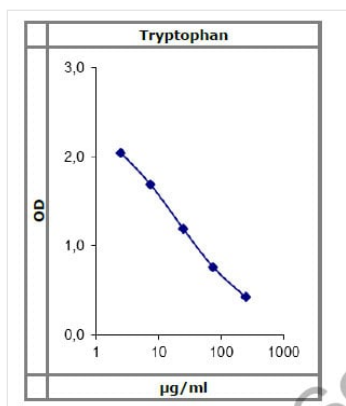
PRODUCT SYNONYMS

Tryptophan; Tryptophan ELISA; 96 well; Tryptophan elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Assay Type	Quantitative Competitive
Samples	Urine, serum and plasma samples
Preparation and Storage	2 - 8 degree C

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for Tryptophan elisa kit	Background: L-Tryptophan is one of the essential amino acids for the human metabolism and must be part of its diet. In humans it serves as precursor for the synthesis of the neurotransmitters serotonin and tryptamine as well as for the synthesis of nicotinic acid and the epiphyseal hormone melatonin. Tryptophan is catabolized to kynurenine through the enzyme IDO (indoleamine-2,3-dioxygenase). Increased IDO activity is an expression of neuro-endocrine-immunological dysregulation, which is often associated with depressive symptoms such as bipolar disorder (manic depression). In addition, Tryptophan and its metabolites regulate neurobehavioral effects such as appetite, sleeping-waking-rhythm and pain perception. Principle of the Assay: After extraction and derivatization Tryptophan is quantitatively determined by ELISA. The competitive ELISA uses the microtiter plate format. The antigen is bound to the solid phase of the microtiter plate. The derivatized standards, controls and samples and the solid phase bound analyte compete for a fixed number of antibody binding sites. When the system is in equilibrium, free antigen and free antigen-antibody complexes are removed by washing. The antibody bound to the solid phase is detected by an anti-rabbit IgG-peroxidase conjugate using TMB as a substrate. The reaction is monitored at 450 nm. Quantification of unknown samples is achieved by comparing their absorbance with a standard curve prepared with known standards. Intended Uses: Enzyme Immunoassay for the quantitative determination of Tryptophan in urine, serum and plasma samples.
Product Categories/Family for Tryptophan elisa kit	Brain Disorders & Neuroscience ; Biogenic Amines & Neurology ; Research Assays ; Assay Categories

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/human-elisa-kits/tryptophan/14216>