

Rat 5-Hydroxytryptamine (5HT) ELISA Kit

Catalog No: #EK7583



Package Size: #EK7583-1 48T #EK7583-2 96T

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Description

Product Name	Rat 5-Hydroxytryptamine (5HT) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Rat (<i>Rattus norvegicus</i>)
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:0.8-160 ng/mL

Sensitivity:0.4 ng/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 5HT in samples. An antibody specific for 5HT has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any5HT present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for 5HT 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 5HT bound in the initial step. The color development is stopped and the intensity of the color is measured.

Product Overview:Serotonin also called 5-hydroxytryptamine, is primarily found in the gastrointestinal (GI) tract and central nervous system (CNS) of animals. Approximately 80 percent of the human body's total serotonin is located in the enterochromaffin cells in the gut, where it is used to regulate intestinal movements. The remainder is synthesized in serotonergic neurons in the CNS where it has various functions, including the regulation of mood, appetite, sleep, muscle contraction, and some cognitive functions including memory and learning; and in blood platelets where it helps to regulate hemostasis and blood clotting. In addition to animals, serotonin is also found in fungi and plants. 5-hydroxytryptamine(5-HT) is an important neurotransmitter made by neurons in the central nervous system. These functions are mediated by a large number of receptors.After it is released by a neuron, 5-HT activates receptors located on nearby neurons.

Note: This product is for in vitro research use only