

Fish Melatonin (MT) ELISA Kit

Catalog No: #EK12242



Package Size: #EK12242-1 48T #EK12242-2 96T

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Description

Product Name	Fish Melatonin (MT) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Fish
Other Names	N-Acetyl-5-Methoxytryptamine
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:12.35-1000 pg/mL

Sensitivity:4.94 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:Sandwich Test principle:This assay employs a two-site sandwich ELISA to quantitate MT in samples. An antibody specific for MT has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any MT present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for MT 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 MT bound in the initial step. The color development is stopped and the intensity of the color is measured.

Product Overview:Melatonin, 5-methoxy-N-acetyltryptamine, is a hormone found in all living creatures from algae to humans, at levels that vary in a daily cycle. Many biological effects of melatonin are produced through activation of melatonin receptors, while others are due to its role as a pervasive and extremely powerful antioxidant with a particular role in the protection of nuclear and mitochondrial DNA. Melatonin is secreted by the pineal gland in the brain and is important in the regulation of many hormones in the body. Among its key roles, melatonin controls the body's circadian rhythm, an internal 24-hour time-keeping system that plays an important role in when fall asleep and when wake up. Darkness stimulates the release of melatonin and light suppresses its activity.

Note: This product is for in vitro research use only