# Serotonin ELISA kit

## Easy-to-use, well-validated serotonin ELISA kit for hormone research.

The Serotonin EIA kit is a colorimetric competitive enzyme immunoassay kit with results in 3 hours.

Serotonin (5-hydroxytryptamine, 5-HT) is a monoamine found in the central nervous system, gastrointestinal tract, and blood with broad physiological functions in neurotransmission, gastric motility, hemostasis, and cardiovascular integrity. Seven subclasses (5-HT 1-7) of serotonin receptors have been identified, a majority of which are members of the seven transmembrane domain-containing GPCR family, and are the target of several anti-depressant drugs.  The 5-HT1 subclass consists of five highly homologous receptors that couple via G(i/o) alpha subunits to inhibit adenylyl cyclase activity. 5-HT1A expression in mammals is strongest in CNS limbic pathways that control emotion, including tissue of the hippocampus, dorsal raphé, and septum. Serotonin is a key biomarker used for the monitoring of overall welfare and/or the assessment of behavioral disorders in a variety of species.

**Citations:** 110 View Online »

## Ordering Information

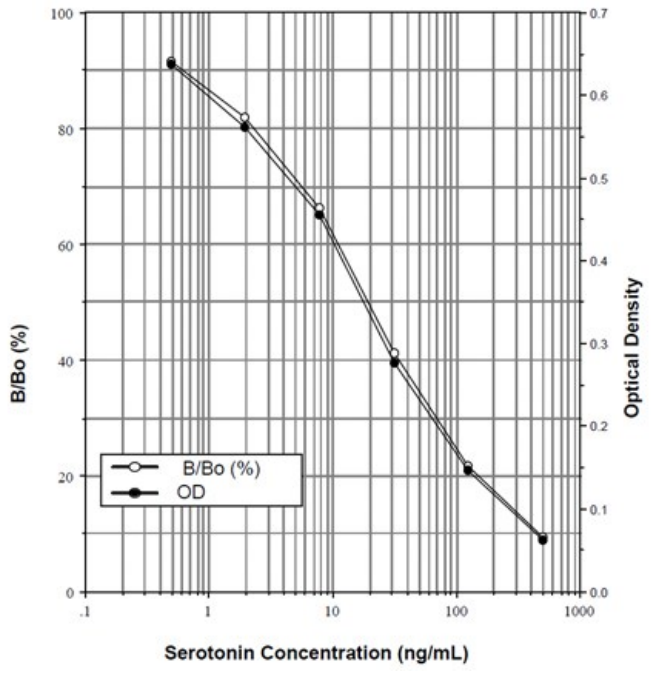
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| | |
|---|---|
| **ADI-900-175** | 96 wells |

## Manuals, SDS & CofA

View Online »

- Highly sensitive measurement of serotonin, detecting as little as 0.293 ng/ml
- No acylation required for standards and samples
- Thoroughly validated in multiple complex sample matrices
- High throughput format with results in just 3 hours for up to 39 samples in duplicate
- Fully quantitative results that surpass semi-quantitiave Western blot analysis


B/Bo (%)
Optical Density
Serotonin Concentration (ng/mL)
B/Bo (%)
OD
100
80
60
40
20
0
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
.1
1
10
100
1000

## Handling & Storage

| | |
|---|---|
| **Use/Stability** | Store all components at -20°C |
| **Shipping** | Blue Ice |

## Regulatory Status

RUO - Research Use Only

## Product Details

| | |
|---|---|
| **Alternative Name** | 5-HT, 5-hydroxytryptamine |
| **Application** | Colorimetric detection, ELISA |
| **Application Notes** | For the quantitative determination of Serotonin in platelets, plasma, serum, and urine from any species. Cited sample type includes culture supernatant. |
| **Assay Time** | 3 hours |
| **Compatibility** | This product is compatible with the **Absorbance 96 Plate Reader**. |
| **Contents** | GxR IgG Microtiter plate, Conjugate, Antibody, Assay buffer, Wash buffer concentrate, Standard, pNpp Substrate, Stop solution |
| **Crossreactivity** | N-acetyl serotonin (17%), 5-hydroxy-L-tryptophan (0.4%), Tryptamine (0.1%), 5-hydroxyindoleacetic acid (0.03%), Melatonin (0.01%), Tyramine (<0.004%), Tryptophan (<0.004%) |
| **Sensitivity** | 0.293 ng/ml (range 0.49 – 500 ng/ml) |
| **Species Reactivity** | Species independent |
| **Technical Info / Product Notes** | **Application Note:**<br>Validation of a Serotonin ELISA Kit with Blood Samples from Three Domestic Animal Species.<br><br>**Cited samples:**<br>Hormone ELISAs: Cited Samples |
| **Wavelength** | 405 nm |

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