

Serotonin ELISA kit - Research

Ref: BA-E-5900

This Serotonin (5-HT) ELISA kit enables the ultra-sensitive measurement of 5-hydroxytryptamine in any biological sample. Intended for research use only, the assay features a lower limit of detection at 5 pg/ml and a minimal sample volume as low as 1µl.

Sample type	1 - 100 µl - any sample
Samples/kit	40 samples in duplicate
Sensitivity	5 pg/ml
Range	0 / 0.015 - 2.5 ng/ml
Assay time	30 min sample preparation, ELISA overnight
Species reactivity	Reacts with all species
Citations	<u>Over 20</u>

Product information

Product overview

Product name	Serotonin ELISA kit - Research
Description	Enzyme immunoassay (ELISA) for the ultra-sensitive determination of Serotonin in biological samples. Research use only.
Format	96-well plate
Samples	1 - 100 µl - any biological sample
Cross-species reactivity	React with all species
Standard range	0 / 0.015 - 2.5 ng/ml
Sensitivity	5 pg/ml
Specificity	No significant cross-reactivity was observed with Serotonin analogs such as Tryptamine, Melatonin, 5-Hydroxyindole acetic acid, Phenylalanine, Histidine, Tyramine and 5-Hydroxytryptophan.
Assay time	30 min + overnight
Storage	Store at 2-8°C for up to 6 months.
Datasheets	Instructions for use , Material safety datasheet

Protocols

Sample preparation	Sample acylation (30min)
ELISA	Serotonin antiserum incubation (overnight), revelation and read steps (1h).
Detailed protocol	Download instructions for use

References

- **Product citation:** [Sabti et al. Elucidation of the Molecular Mechanism Underlying Lippia citriodora\(Lim.\)-Induced Relaxation and Anti-Depression. Int J Mol Sci. 2019 Jul 20](#)
- **Product citation:** [Lau et al. The presence of serotonin in cigarette smoke – a possible mechanistic link to 5-HT-induced airway inflammation. Free Radic Res. 2016;50](#)
- **Product citation:** [Pham et al. Ketamine treatment involves medial prefrontal cortex serotonin to induce a rapid antidepressant-like activity in BALB/cJ mice. Neuropharmacology. 2017 Jan;112](#)
- [Valiyaveetil M et al. Contribution of systemic factors in the pathophysiology of repeated blast-induced neurotrauma. Neurosci Lett. 2013 Feb 28;539:1-6.](#)
- [Damen R et al. The stimulatory adenosine receptor ADORA2B regulates serotonin \(5-HT\) synthesis and release in oxygen-depleted EC cells in inflammatory bowel disease. PLoS One. 2013 Apr 26;8\(4\):e62607.](#)
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- [Rokstad AM et al. Microencapsulation of small intestinal neuroendocrine neoplasm cells for tumor model studies. Cancer Sci. 2012 Jul;103\(7\):1230-7.](#)
- [Chin A et al. The role of mechanical forces and adenosine in the regulation of intestinal enterochromaffin cell serotonin secretion. Am J Physiol Gastrointest Liver Physiol. 2012 Feb 1;302\(3\):G397-405.](#)
- [van den Buuse M. Exploring the role of 5-HT1A receptors in the regulation of prepulse inhibition in mice: implications for cross-species comparisons. ACS Chem Neurosci. 2013 Jan 16;4\(1\):149-60.](#)
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Product pictures



Sensitive 5-HT ELISA kit

Serotonin (5-hydroxytryptamine) is a monoamine neurotransmitter derived from the essential amino acid L-tryptophan. Produced by enterochromaffin cells in the gut and serotonergic neurons in the brain, serotonin is stored and transported by platelets in the blood. It is then excreted in urine directly, or in the form of 5-HIAA, its main metabolite. Altered serotonin levels in serum, urine and platelets are associated with carcinoid tumors and CNS disorders such as autism, depression and suicidal schizophrenia.

Contact information

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To order, review, ask for technical support, visit product page at:

<https://www.immusmol.com/5-ht-serotonin-elisa-kit-sensitive-5-hydroxytryptamine.html>