

Datasheet for ABIN5068066 **IL-5 ELISA Kit**

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Overview

Quantity:	96 tests
Target:	IL-5 (IL5)
Reactivity:	Human
Method Type:	Sandwich ELISA
Application:	ELISA

Product Details

Purpose:	This Human Interleukin 5 ELISA Kit is to be used for the in vitro quantitative determination of human Interleukin 5 (IL-5) concentrations in serum, plasma, cell culture medium and urine. This kit is intended for research use only and not to be used for diagnostic purposes. It is intended for research use only and is not to be used in diagnostic or therapeutic procedures.
Sample Type:	Cell Culture Lysate, Plasma, Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Sensitivity:	> 7.5 pg/mL
Characteristics:	Interleukin 5, Human, ELISA Kit (IL-5, Interleukin-5, B Cell Differentiation Factor I, T-cell Replacing Factor, TRF)
Components:	• IL-5 Microtiter Plate, 1x96 wells • Biotin Conjugate, 1x7ml • Avidin Conjugate, 1x14ml • IL-5 Standard 2x1 vials • Calibrator Diluent I, 1x22ml

Product Details

- Calibrator Diluent II, 1x22ml
- Wash Buffer (20X), 1x60ml
- Substrate A, 1x10ml
- Substrate B, 1x10ml
- Stop Solution, 1x14ml, 2N Sulphuric Acid (O4)

Target Details

Target:	IL-5 (IL5)
Alternative Name:	Interleukin 5 (IL5 Products)
Pathways:	JAK-STAT Signaling , Positive Regulation of Peptide Hormone Secretion , Production of Molecular Mediator of Immune Response , Feeding Behaviour

Application Details

Protocol:	Principle of the Assay: • This IL-5 enzyme linked immunosorbent assay (ELISA) applies a technique called a quantitative sandwich immunoassay. The microtiter plate provided in this kit has been pre-coated with a monoclonal antibody specific to IL-5. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated monoclonal antibody preparation specific for IL-5 and incubated. IL-5 if present, will bind and become immobilized by the antibody pre-coated on the wells and then be "sandwiched" by biotin conjugate. The microtiter plate wells are thoroughly washed to remove unbound IL-5 and other components of the sample. In order to quantitate the amount of IL-5 present in the sample, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. Avidin is a tetramer containing four identical subunits that each have a high affinity binding site for biotin. The wells are thoroughly washed to remove all unbound HRP-conjugated Avidin and a TMB (3,3& • 39,5,5& • 39, tetramethyl-benzidine) substrate solution is added to each well. The enzyme (HRP) and substrate are allowed to react over a short incubation period. Only those wells that contain IL-5, biotin-conjugated antibody, and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of a sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 2nm.
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Restrictions:	For Research Use only
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Handling

Storage:	4 °C
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Handling

Storage Comment: 4°C