



Chicken estrogen receptor α (ER α) ELISA kit

Cat. No.:	OB0625WXX-733
Assay Type:	Quantitative sandwich ELISA
Target Species:	Chicken
Assay Target:	ER α
Size:	24T; 48T; 96T

This product is for research use only and is not intended for diagnostic use.

Product Overview

Description

Chicken estrogen receptor α (ER α) ELISA kit is an ELISA-based *in vitro* research tool designed specifically for the quantitative detection of ER α in chicken with a range of 3.125-200 pg/mL and a specificity of 1.875 pg/mL.

Assay Principle

The micro ELISA plates provided in this kit are pre-coated with an antibody specific for chicken ER α . Standards or samples are added to the appropriate micro ELISA plate wells and bound to the specific antibody. Biotinylated detection antibody specific for chicken ER α and avidin-horseradish peroxidase (HRP) conjugate are then added sequentially to each microplate well and incubated. Free components are washed away. Substrate solution is added to each well. Only wells containing chicken ER α , biotinylated detection antibody, and avidin-HRP conjugate will appear blue. Upon addition of sulfuric acid solution, the enzyme-substrate reaction terminates, and the color turns yellow. Optical density (OD) is measured spectrophotometrically at 450 nm \pm 2 nm. The OD value is proportional to the concentration of chicken ER α . The concentration of Chicken ER α in the sample can be calculated by comparing the OD value with the standard curve.

Background

ER α , a member of the steroid receptor superfamily, contains highly conserved DNA-binding and ligand-binding domains. It is activated by the sex hormone estrogen and is involved in the physiological development and function of various organ systems.

Synonyms

Estrogen receptor alpha; ESR1; ER α ; NR3A1; EC 3.1.1.3



Formula Weight	66,955 Da
Applications	Chicken estrogen receptor α (ER α) ELISA kit is used to quantify ER α in serum, plasma, and biological fluid samples of chicken, providing data to support a wide range of studies.
Research Area	Endocrinology

Specification

Sample Type	Serum; Plasma; Biological fluids
Detection Range	3.125-200 pg/mL
Sensitivity	1.875 pg/mL
Cross-reactivity	No significant cross-reactivity or interference was observed.
Storage	Store at 4°C.