

## Datasheet for ABIN7538039 HCP ELISA Kit



[Go to Product page](#)

### Overview

Quantity: 96 tests

Target: HCP

Reactivity: E. coli

Method Type: Sandwich ELISA

Detection Range: 3.90625 ng/mL - 250 ng/mL

Minimum Detection Limit: 3.90625 ng/mL

Application: ELISA

### Product Details

**Purpose:** The kit is intended for the quantitative determination of residual host cell protein in Cell Culture Supernatants, Protein Purification Process, and End-Product expressed by E. coli expression systems.

**Sample Type:** Cell Culture Supernatant

**Analytical Method:** Quantitative

**Detection Method:** Colorimetric

**Cross-Reactivity (Details):** No cross-reaction exists between the homologous antigens.

**Sensitivity:** 1.95 ng/mL

**Characteristics:** This ELISA kit is applied to the solid phase sandwich Enzyme-Linked Immunosorbent Assay. The microplate has been pre-coated with a capture antibody. The antigen to be measured and the HRP-conjugated detection antibody are then added to the microplate wells sequentially to form a capture antibody-antigen-detection antibody complex. After washing, the conjugates

## Product Details

---

uninvolved in the reaction are removed, and then a TMB substrate solution is added to the wells to incubate. TMB substrate solution turns blue after the oxidation of HRP and finally turns yellow immediately after adding the stop solution. The color of the TMB substrate positively correlated with the antigen bound in the initial steps. Measure the absorbance (OD value) at 450nm using a microplate reader, and create a standard curve along with the corresponding concentrations. Then, by inputting the OD values of the samples into the standard curve equation, calculate the concentration of the target protein in the sample.

---

Components: Pre-Coated Microplate (Detachable), Standard (Stock Solution), Detection antibody (100x), TMB Substrates, Stop Solution, Wash Solution (100x), Diluent Buffer (10x), Plate Sealer

## Target Details

---

Target: HCP

Alternative Name: Host Cell Proteins ([HCP Products](#))

## Application Details

---

Application Notes: Optimal working dilution should be determined by the investigator.

Sample Volume: 100 µL

Assay Time: 3 h

Plate: Pre-coated

Assay Precision: Intra Variation%: 7.3-13.1, Inter Variation%: 8.1-11.5

Restrictions: For Research Use only

## Handling

---

Storage: 4 °C