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Datasheet for ABIN7538037 HCP ELISA Kit

Overview

Quantity:	96 tests
Target:	HCP
Reactivity:	Chinese Hamster
Method Type:	Sandwich ELISA
Detection Range:	3.125 ng/mL – 100 ng/mL
Minimum Detection Limit:	3.125 ng/mL
Application:	ELISA

Product Details

Purpose:	The kit is intended for the quantitative determination of host cell protein impurities in Cell culture supernatants or host cell protein (HCP) contamination in end-product expressed by Chinese Hamster Ovary (CHO) 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:	0.2 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%: 3.1-4.5, Inter Variation%: 6.0-9.1

Restrictions: For Research Use only

Handling

Storage: 4 °C