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Datasheet for ABIN454716 HMGB4 ELISA Kit

Overview

Quantity:	96 tests
Target:	HMGB4
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	0.156-10 ng/mL
Minimum Detection Limit:	0.156 ng/mL
Application:	ELISA

Product Details

Purpose:	This immunoassay kit allows for the in vitro quantitative determination of human chondroitin sulfatase,CS concentrations in cell culture supernates, serum, plasma and other biological fluids.
Sample Type:	Cell Culture Supernatant, Plasma, Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	This assay recognizes recombinant and natural human CS.
Cross-Reactivity (Details):	No significant cross-reactivity or interference was observed.
Sensitivity:	< 0.312 U/L The sensitivity of this assay, or Lower Limit of Detection (LLD) was defined as the lowest detectable concentration that could be differentiated from zero.

Product Details

Characteristics: Homo sapiens,Human,High mobility group protein B4,HMGB4

Target Details

Target: HMGB4

Alternative Name: HMGB4 ([HMGB4 Products](#))

Background: In enzymology, a chondroitin sulfatase is an enzyme that catalyzes the chemical reaction of cleaving off the 6-sulfate groups of the N-acetyl-D-galactosamine 6-sulfate units of the macromolecule chondroitin sulfate and, similarly, of the D-galactose 6-sulfate units of the macromolecule keratan sulfate. This enzyme belongs to the family of hydrolases, specifically those acting on sulfuric ester bonds.

Application Details

Sample Volume: 100 µL

Plate: Pre-coated

Protocol: The microtiter plate provided in this kit has been pre-coated with an antibody specific to CS. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated polyclonal antibody preparation specific for CS and Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. Then a TMB substrate solution is added to each well. Only those wells that contain CS, 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 450 nm ± 2 nm. The concentration of CS in the samples is then determined by comparing the O.D. of the samples to the standard curve.

Restrictions: For Research Use only

Handling

Storage: 4 °C/-20 °C

Storage Comment: The Standard, Detection Reagent A, Detection Reagent B and the 96-well strip plate should be stored at -20 °C upon being received. The other reagents can be stored at 4 °C.