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Human UCP-1 (Uncoupling Protein 1, Mitochondrial) ELISA Kit

Cat #: G-EC-03208

Species: Human

Sensitivity: 0.09ng/mL

Type: Sandwich

Range: 0.16~10ng/mL

Detection: Colormetric

Duration: 3.5h

Principle:
This ELISA kit uses the Sandwich-ELISA principle. The micro ELISA plate provided in this kit has been pre-coated with an antibody specific to Human UCP-1. Samples (or Standards) are added to the micro ELISA plate wells and combined with the specific antibody. Then a biotinylated detection antibody specific for Human UCP-1 and Avidin-Horseradish Peroxidase (HRP) conjugate are added successively to each micro plate well and incubated. Free components are washed away. The substrate solution is added to each well. Only those wells that contain Human UCP-1, biotinylated detection antibody and Avidin-HRP conjugate will appear blue in color. The enzyme-substrate reaction is terminated by the addition of stop solution and the color turns yellow. The optical density (OD) is measured spectrophotometrically at a wavelength of 450 ± 2 nm. The OD value is proportional to the concentration of Human UCP-1. You can calculate the concentration of Human UCP-1 in the samples by comparing the OD of the samples to the standard curve.

Specificity:
This kit recognizes Human UCP-1 in samples. No significant cross-reactivity or interference between Human UCP-1 and analogues was observed.

UniProt ID: P25874

Gene: UCP-1

Synonyms: SLC25A7, Thermogenin

Specimen: Serum, plasma and other biological fluids

Application: This ELISA kit applies to the in vitro quantitative determination of Human UCP-1 concentrations in Serum, plasma and other biologic

Research Areas: Cancer, Metabolism, Signal transduction

Storage:
An unopened kit can be stored at 2-8°C for 1 month. If the kit is not supposed to be used within 1 month, store the items separately according to the storage table in the manual once the kit is received.