CREATIVE BIOMART®
Assay Kit

PPAR (alpha, delta, gamma) Transcription Factor Assay Kit

Product Information

Cat.No. Kit-0714

Product Overview

PPAR Transcription Factor Assay Kit is a non-radioactive, sensitive method for detecting specific transcription factor DNA binding activity in nuclear extracts and whole cell lysates. A 96-well enzyme-linked immunosorbent assay (ELISA) replaces the cumbersome radioactive electrophoretic mobility shift assay (EMSA). A specific double stranded DNA (dsDNA) sequence containing the PPAR response element is immobilized onto the bottom of wells of a 96-well plate. PPARs contained in a nuclear extract, bind specifically to the PPAR response element. PPAR alpha, delta, or gamma are detected by addition of specific primary antibodies directed against the individual PPARs. A secondary antibody conjugated to HRP is added to provide a sensitive colorimetric readout at 450 nm. The kit comes with a single plate that measures all three isoforms of PPAR alpha, delta, and gamma. There are enough reagents for one-third of a plate for each isoform. This product is being discontinued. You can use PPAR alpha Transcription Factor Assay Kit, PPAR delta Transcription Factor Assay Kit or PPAR gamma Transcription Factor Assay Kit as alternative products.

Size

96 tests

Description

Peroxisome proliferator-activated receptors (PPARs) are ligand activated nuclear receptors. Three PPAR subtypes have been identified: alpha, delta and gamma. PPARs can be activated by polyunsaturated fatty acids, eicosanoids and various synthtic ligands. PPARs play pivotal roles in the regulation of lipid metabolism and homeostasis and are important indirect and direct regulators of cellular insulin sensitivity.

Applications

Functional Studies more details

Target Species

Reacts with: Human; Predicted to work with: A wide range of mammals

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Kit Components

Components: 96 tests; 96-Well Plate Cover: 1 unit; Polysorbate 20: 1 vial; Transcription Factor Antibody Binding Buffer (10X): 1 x 3ml; Transcription Factor Binding Assay Buffer (4X): 1 x 3ml; Transcription Factor Complete PPARα Positive Control: 1 vial; Transcription Factor Complete PPARα Primary Antibody: 1 vial; Transcription Factor Complete PPARδ Positive Control: 1 vial; Transcription Factor Complete PPARδ Primary Antibody: 1 vial; Transcription Factor Complete PPARγ Positive Control: 1 vial; Transcription Factor Complete PPARγ Primary Antibody: 1 vial; Transcription Factor Developing Solution: 1 x 12ml; Transcription Factor Goat Anti-Rabbit HRP Conjugate: 1 x 100µl; Transcription Factor PPAR 96-Well Strip Plate: 1 unit; Transcription Factor PPAR Competitor dsDNA: 1 vial; Transcription Factor Reagent A: 1 x 120µl; Transcription Factor Stop Solution: 1 x 12ml; Wash Buffer Concentrate (400X): 1 x 5ml

Compatible Sample Types

Adherent cells, Suspension cells, Nuclear Extracts

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