CREATIVE BIOMART®
Assay Kit

TR-FRET PPAR gamma Competitive Binding Assay Kit, goat

Product Information

Cat

Kit-0970

Common Name

TR-FRET

Cat.No. Kit-0970

Description

The TR-FRET PPAR gamma Competitive Binding Assay provides a sensitive and robust method for high-throughput screening (HTS) of ligands for peroxisome proliferator-activated receptor-gamma (PPAR gamma). The kit uses a terbium-labeled anti-GST antibody, a fluorescent small-molecule pan-PPAR ligand (Pan-PPAR Green), and human PPAR gamma ligand-binding domain (LBD) that is tagged with glutathione S-transferase (GST) in a homogeneous mix-and-read assay format.
To assay:
When running the TR-FRET PPAR gamma Competitive Binding Assay, Pan-PPAR Green is added to ligand test compounds followed by addition of a mixture of the PPAR gamma-LBD and terbium anti-GST antibody. When the Pan-PPAR Green is bound to PPAR gamma, energy transfer from the terbium-labeled antibody to the tracer occurs, and a high TR-FRET ratio is observed. Competitive ligand binding to PPAR gamma is detected by a test compound's ability to displace the tracer, which results in a loss of FRET between the antibody and the tracer. After an incubation period at room temperature, the 520 nm/495 nm TR-FRET ratio is calculated and can be used to determine the IC50 from a dose response curve of the compound. This type of binding assay is analogous to radioligand-based assays, except that it eliminates handling of radioactivity and enables a homogeneous, "addition-only" format.

Applications

Competitive Binding Assay

Storage

The TR-FRET PPAR gamma Competitive Binding Assay Kit contains PPAR gamma-LBD (GST) protein,

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Pan-PPAR Green, terbium-labeled anti-GST antibody, and buffers. Store components as indicated in the assay protocol (-80°C, -20°C, or +4°C).

Shipping
Dry Ice
Size
400 x 40 µL
Materials Required but Not Supplied
Microplate Reader
Detection method Fluorescent

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