CREATIVE BIOMART®
Assay Kit

TR-FRET PPAR delta Coactivator Assay Kit, goat

Product Information

Cat

Kit-0894

Common Name

TR-FRET

Cat.No. Kit-0894

Description

The TR-FRET PPAR (peroxisome proliferator activated receptor) delta Coactivator Assay Kit provides a sensitive and robust method for high-throughput screening of potential PPAR delta ligands as agonists of ligand-dependent coactivator recruitment. The kit uses a terbium (Tb)-labeled anti-GST antibody, a fluorescein-labeled coactivator peptide, and a human recombinant PPAR delta ligand-binding domain (PPAR delta-LBD) that is tagged with glutathione-S-transferase (GST), in a homogeneous mix-and-read assay format.
When running the TR-FRET PPAR delta Coactivator Assay in agonist mode (to identify agonist compounds), PPAR delta-LBD is added to ligand test compounds followed by addition of a mixture of the fluorescein-labeled coactivator peptide and Tb-labeled anti-GST antibody. After an incubation period at room temperature, the TR-FRET ratio of 520/495 is calculated and can be used to determine the EC50 from a dose response curve of the compound. Based on the biology of the PPAR delta-coactivator peptide interaction, this ligand EC50 is a composite value representing the amount of ligand required to bind to receptor, effect a conformational change, and recruit coactivator peptide.

Applications

Co-Factor Interaction Assay

Storage

Store in ultra-cold freezer (-68 to -85°C).

Shipping

Tel: 1-631-559-9269 1-516-512-3133
Email:info@creative-biomart.org
Fax:1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

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Dry Ice

Size

800 x 20 µL assays

Kit Components

The TR-FRET PPAR delta Coactivator Assay Kit contains PPAR delta-LBD (GST) protein, fluorescently labeled C33 coactivator peptide, Tb-anti-GST antibody, and buffers. Store components as indicated in the assay protocol (-80°C, -20°C or 4°C).

Materials Required but Not Supplied

Microplate Reader

Detection method Fluorescent

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