CREATIVE BIOMART®
Assay Kit

TR-FRET RXR alpha Coactivator Assay Kit, goat

Product Information

Cat

Kit-0905

Common Name

TR-FRET

Cat.No. Kit-0905

Description

The TR-FRET Retinoid X Receptor alpha Coactivator Assay provides a sensitive and robust method for high-throughput screening of potential RXR alpha 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 RXR alpha ligand-binding domain (RXR alpha-LBD) that is tagged with glutathione-S-transferase (GST) in a homogeneous mix-and-read assay format.
To assay:
When running the TR-FRET Retinoid X Receptor alpha Coactivator Assay in agonist mode (to identify agonist compounds), RXR alpha-LBD is added to ligand test compounds followed by addition of a mixture of the fluorescein-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 RXR alpha-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

TR-FRET RXR alpha Coactivator Assay Kits contain RXR alpha-LBD (GST) protein, fluorescently labeled PGC1a coactivator peptide, Tb-labeled anti-GST antibody and buffers. Store components as

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indicated in the assay protocol (-80°C, -20°C or 4°C).

Shipping
Dry Ice
Size
800 x 20 µL assays
Materials Required but Not Supplied
Microplate Reader
Detection method Fluorescent

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