CREATIVE BIOMART®
Assay Kit

TR-FRET LXR alpha Coactivator Assay Kit, rabbit

Product Information

Cat

Kit-0962

Common Name

TR-FRET

Cat.No. Kit-0962

Description

The TR-FRET LXR (liver X receptor) alpha Coactivator Assay provides a sensitive and robust method for high-throughput screening of potential LXR alpha ligands as agonists of coactivator recruitment. The kit uses a terbium (Tb)-labeled anti-GST antibody, a fluorescein-labeled coactivator peptide, and an LXR alpha ligand-binding domain (LBD) that is tagged with glutathione-S-transferase (GST), in a homogeneous mix-and-read assay format.
In the TR-FRET LXR alpha Coactivator Assay, LXR 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 520 nm/495 nm TR-FRET ratio is calculated and can be used to determine the EC50 from a dose response curve of the compound. Based on the biology of the LXR 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

Nuclear Receptor Assay

Storage

Tb-anti-GST Antibody (Rabbit): Store at -20 °C
LXR alpha-LBD, GST: Store at -80 °C
Fluoroscein Coactivator Peptide: Store at -20 °C
TR-FRET Coregulatore Buffer H: Store at 4 °C
1M DTT: Store at -20 °C or -80 °C

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Size

800 x 20 µL assays

Kit Components

TheTR-FRET LXR alpha Coactivator Assay Kitcontains LXR alpha-LBD (GST) protein, fluorescently labeled TRAP220/DRIP-2 coactivator peptide, Tb-labeled 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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