

## TR-FRET LXR beta Coactivator Assay Kit, rabbit

**Cat. No.** Kit-0968    **Lot. No.** (See product label)

### SPECIFICATION

#### Product Overview

The TR-FRET LXR (liver X receptor) beta Coactivator Assay provides a sensitive and robust method for high-throughput screening of potential LXR beta ligands as agonists of coactivator recruitment. The kit uses a terbium (Tb)-labeled anti-GST antibody, a fluorescein-labeled coactivator peptide, and an LXR beta ligand-binding domain (LBD) that is tagged with glutathione-S-transferase (GST), in a homogeneous mix-and-read assay format.

How it works:

#### Description

In the TR-FRET LXR beta Coactivator Assay, LXR beta-LBD is added to ligand test compounds followed by the 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 EC<sub>50</sub> from a dose response curve of the compound. Based on the biology of the LXR beta-coactivator peptide interaction, this ligand EC<sub>50</sub> 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 beta-LBD, GST: Store at -80 °C  
 Fluorescein Coactivator Peptide: Store at -20 °C  
 TR-FRET Coregulator Buffer i: Store at 4 °C  
 1M DTT: Store at -20 °C or -80 °C

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|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Size</b>                                | 800 x 20 $\mu$ assays                                                                                                                                                                                                                                  |
| <b>Kit Components</b>                      | The TR-FRET LXR beta Coactivator Assay Kit contains LXR beta-LBD (GST) protein, fluorescently labeled D22 coactivator peptide, Tb-labeled anti-GST antibody, and buffers. Store components as indicated in the assay protocol (-80°C, -20°C, or +4°C). |
| <b>Materials Required but Not Supplied</b> | Microplate Reader                                                                                                                                                                                                                                      |
| <b>Detection method</b>                    | Fluorescent                                                                                                                                                                                                                                            |

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