CREATIVE BIOMART®
Assay Kit

TR-FRET LXR beta Coactivator Assay Kit, goat

Product Information

Cat

Kit-0966

Common Name

TR-FRET

Cat.No. Kit-0966

Description

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:
In theTR-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 EC50 from a dose response curve of the compound. Based on the biology of the LXR beta-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

Dry Ice

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45-1 Ramsey Road, Shirley, NY 11967, USA

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Size
800 x 20 µL assays
Kit Components
The TR-FRET LXR beta Coactivator Assay Kitcontains 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).
Materials Required but Not Supplied
Microplate Reader
Detection method Fluorescent

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