CREATIVE BIOMART®
Assay Kit

TR-FRET ERR beta Coactivator Assay Kit, goat

Product Information

Cat

Kit-0912

Common Name

TR-FRET

Cat.No. Kit-0912

Description

The TR-FRET ERR (estrogen related receptor) beta Coactivator Assay Kit provides a sensitive and robust method for highthroughput screening of potential ERR beta ligands as inverse agonists of ligand-dependent coactivator displacement. The kit uses a terbium (Tb)-labeled anti-GST antibody, a fluorescein-labeled coactivator peptide, and a human recombinant ERR beta ligand-binding domain (ERR beta-LBD) that is tagged with glutathione-S-transferase (GST) in a homogeneous mix-and-read assay format.
To assay:
When running the ERR beta TR-FRET Coactivator Assay, ERR beta-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 ERR 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 displace coactivator peptide.

Applications

Co-Factor Interaction Assay

Storage

The TR-FRET ERR beta Coactivator Assay Kit contains ERR beta-LBD (GST) protein, fluorescently labeled PGC1a coactivator peptide, Tb-labeled anti-GST antibody, and buffers.

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Store components as 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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