CREATIVE BIOMART®
Assay Kit

TR-FRET RAR beta Coactivator Assay Kit, goat

Product Information

Cat

Kit-0967

Common Name

TR-FRET

Cat.No. Kit-0967

Description

The TR-FRET RAR (retinoic acid receptor) beta Coactivator Assay Kit provides a sensitive and robust method for highthroughput screening of potential RAR beta 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 RAR beta ligand-binding domain (RAR beta-LBD) that is tagged with glutathione-S-transferase (GST) in a homogeneous, mix-and-read assay format.

When running the TR-FRET RAR beta coactivator assay in agonist mode to identify agonist compounds, RAR 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 EC50from a dose response curve of the compound. Based on the biology of the RAR beta-coactivator peptide interaction, this ligand EC50is 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

Tel: 1-631-559-9269 1-516-512-3133
Email:info@creative-biomart.org
Fax:1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

CREATIVE BIOMART®
Assay Kit

TR-FRET RAR beta Coactivator Assay Kit, goat

Dry Ice

Size

800 x 20 µL assays

Kit Components

The TR-FRET RAR beta Coactivator Assay Kit contains RAR beta-LBD (GST) protein, fluorescently labeled SRC2-2 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

Tel: 1-631-559-9269 1-516-512-3133

Email:info@creative-biomart.org

Fax:1-631-938-8127

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