CREATIVE BIOMART®
Assay Kit

TR-FRET TR alpha Coactivator Assay Kit, goat

Product Information

Cat

Kit-0897

Common Name

TR-FRET

Cat.No. Kit-0897

Description

The TR-FRET TR (thyroid receptor) alpha Coactivator Assay Kit provides a sensitive and robust method for highthroughput screening of potential TR alpha 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 TR alpha ligand-binding domain (TR alpha-LBD) that is tagged with glutathione-S-transferase (GST) in a homogeneous, mix-and-read assay format.
To Assay:
When performing the TR-FRET TR alpha coactivator assay, TR alpha-LBD is added to ligand test compounds followed by addition of a mixture of the fluorescein-coactivator peptide and Tb anti-GST antibody. After an incubation period at room temperature, the 520 nm/495 nm TR-FRET ratio is calculated and used to determine the EC50from a dose response curve of the compound. Based on the biology of the TR alpha-coactivator peptide interaction, the ligand EC50is a composite value representing the amount of ligand required to bind to receptor, induce 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 TR alpha Coactivator Assay Kit contains TR alpha-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

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