CREATIVE BIOMART®
Assay Kit

TR-FRET RAR alpha Coactivator Assay Kit, goat

Product Information

Cat

Kit-0972

Common Name

TR-FRET

Cat.No. Kit-0972

Description

The TR-FRET Retinoic Acid Receptor (RAR) alpha Coactivator Assay Kit provides a sensitive and robust method for high-throughput screening of potential RAR alpha ligands as agonists of coactivator recruitment. The homogeneous mix-and-read assay format results in a ligand EC50 composite value representing the amount of ligand required to bind to receptor, effect a conformational change, and recruit coactivator peptide.

How it works

The TR-FRET RAR alpha Coactivator Assay Kit includes a terbium (Tb)-labeled anti-GST antibody, a fluorescein-labeled coactivator peptide, and a human RAR alpha ligand-binding domain (RAR alpha-LBD) that is tagged with glutathione-S-transferase (GST). To assay, RAR 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 room temperature incubation, the TR-FRET 520: 495 emission ratio is calculated and used to determine the EC50 from a dose response curve of the compound.

Applications

Co-Factor Interaction Assay

Storage

Store in ultra-cold freezer (-68 to -85°C).

Shipping

Dry Ice

Size

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

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800 x 20 µL assays

Kit Components

The TR-FRET RAR alpha Coactivator Assay Kit contains RAR alpha-LBD (GST) protein, fluorescein-labeled D22 coactivator peptide, Tb-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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