CREATIVE BIOMART®
Assay Kit

TR-FRET ERR alpha Coactivator Assay Kit, goat

Product Information

Cat

Kit-0975

Common Name

TR-FRET

Cat.No. Kit-0975

Description

The ERR (estrogen related receptor) alpha TR-FRET Coactivator Assay provides a sensitive and robust method for high-throughput screening of potential ERR alpha ligands as inverse agonists (sometimes referred to as antagonists) of coactivator displacement. The kit uses a terbium (Tb)-labeled anti-GST antibody, a fluorescein-labeled coactivator peptide, and an ERR alpha ligand-binding domain (ERR alpha-LBD) that is tagged with glutathione-S-transferase (GST), in a homogeneous mix-and-read assay format.

In the ERR alpha TR-FRET Coactivator Assay, ERR alpha-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 alpha-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

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

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Dry Ice

Size

800 x 20 µL assays

Kit Components

The TR-FRET ERR alpha Coactivator Assay Kit contains ERR alpha-LBD (GST) protein, fluorescently labeled PGC1a 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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