CREATIVE BIOMART®
Assay Kit

TR-FRET VDR Coactivator Assay Kit, goat

Product Information

Cat

Kit-0959

Common Name

TR-FRET

Cat.No. Kit-0959

Description

The TR-FRET Vitamin D Receptor (VDR) Coactivator Assay Kit provides a sensitive and robust method for high-throughput screening of potential VDR ligands as agonists of coactivator recruitment. The kit uses a terbium (Tb)-labeled anti-GST antibody, a fluorescein-labeled coactivator peptide, and a VDR ligand-binding domain (VDR-LBD) that is tagged with glutathione-S-transferase (GST), in a homogenous mix-and-read assay format.
The assay
To run the TR-FRET VDR Coactivator Assay, VDR-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. Based upon the biology of the VDRcoactivator peptide interaction, this ligand EC50 is 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

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 VDR Coactivator Assay Kit contains the VDR-LBD (GST) protein, fluorescein-labeled TRAP220/DRIP-2 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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