

TR-FRET VDR Coactivator Assay Kit, goat

Cat. No. Kit-0959 **Lot. No.** (See product label)

SPECIFICATION

Product Overview

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.

Description

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

800 x 20 µ assays

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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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