

TR-FRET RAR alpha Coactivator Assay Kit, goat

Cat. No. Kit-0972 **Lot. No.** (See product label)

SPECIFICATION

Product Overview

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

Description

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

800 x 20 µ assays

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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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