TR-FRET RAR beta Coactivator Assay Kit, goat

Cat. No. Kit-0967 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	
Description	The TR-FRET RAR (retinoic acid receptor) beta Coactivator Assay Kit provides a sensitive and robust method for highthroughput screening of potential RAR beta ligands as agonists of ligand-dependent coactivator recruitment. The kit uses a terbium (Tb)-labeled anti-GST antibody, a fluorescein-labeled coactivator peptide, and a human recombinant RAR beta ligand-binding domain (RAR beta-LBD) that is tagged with glutathione-S-transferase (GST) in a homogeneous, mix-and-read assay format. When running the TR-FRET RAR beta coactivator assay in agonist mode to identify agonist compounds, RAR beta-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 EC50from a dose response curve of the compound. Based on the biology of the RAR beta-coactivator peptide interaction, this ligand EC50is 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

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Size	800 x 20 µ assays
Kit Components	The TR-FRET RAR beta Coactivator Assay Kit contains RAR beta-LBD (GST) protein, fluorescently labeled SRC2-2 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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