TR-FRET TR alpha Coactivator Assay Kit, goat

Cat. No. Kit-0897 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	
Description	The TR-FRET TR (thyroid receptor) alpha Coactivator Assay Kit provides a sensitive and robust method for highthroughput screening of potential TR alpha 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 TR alpha ligand-binding domain (TR alpha-LBD) that is tagged with glutathione-S-transferase (GST) in a homogeneous, mix-and-read assay format. To Assay: When performing the TR-FRET TR alpha coactivator assay, TR 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 an incubation period at room temperature, the 520 nm/495 nm TR-FRET ratio is calculated and used to determine the EC50from a dose response curve of the compound. Based on the biology of the TR alpha-coactivator peptide interaction, the ligand EC50is a composite value representing the amount of ligand required to bind to receptor, induce 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 TR alpha Coactivator Assay Kit contains TR alpha-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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