

TR-FRET ERR alpha Coactivator Assay Kit, goat

Cat. No. Kit-0975 **Lot. No.** (See product label)

SPECIFICATION

Product Overview

The ERR (estrogen related receptor) alpha TR-FRET Coactivator Assay provides a sensitive and robust method for high-throughput screening of potential ERR alpha ligands as inverse agonists (sometimes referred to as antagonists) of coactivator displacement. The kit uses a terbium (Tb)-labeled anti-GST antibody, a fluorescein-labeled coactivator peptide, and an ERR alpha ligand-binding domain (ERR alpha-LBD) that is tagged with glutathione-S-transferase (GST), in a homogeneous mix-and-read assay format.

Description

In the ERR alpha TR-FRET Coactivator Assay, ERR alpha-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 EC₅₀ from a dose response curve of the compound. Based on the biology of the ERR alpha-coactivator peptide interaction, this ligand EC₅₀ is a composite value representing the amount of ligand required to bind to receptor, effect a conformational change, and displace 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 ERR alpha Coactivator Assay Kit contains ERR alpha-LBD (GST) protein, fluorescently labeled PGC1a 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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