

TR-FRET ER alpha Coactivator Assay Kit

Cat. No. Kit-0951 **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Description

The TR-FRET ER alpha Coactivator Assay Kit provides a sensitive and robust method for high-throughput screening of potential estrogen receptor (ER) alpha ligands as agonists or antagonists of ligand-dependent coactivator recruitment. The kit uses an ER alpha ligand-binding domain (ER alpha-LBD) tagged with glutathione-S-transferase (GST), a terbium (Tb)-labeled anti-GST antibody, and a fluorescein-labeled coactivator peptide in a homogenous mix-and-read assay format.

Agonist Mode

To run the Lanthascreen TR-FRET ER alpha Coactivator Assay in agonist mode (to identify agonist compounds), ER alpha-LBD is added to ligand test compounds, followed by the addition of a mixture of fluorescein-coactivator peptide and Tb-anti-GST antibody. After incubation at room temperature, the TR-FRET 520: 495 nm emission ratio is calculated and used to determine the EC₅₀ from a dose response curve of the compound. Based on the biology of the ER 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 recruit coactivator peptide.

Antagonist Mode

To run the Lanthascreen TR-FRET ER alpha Coactivator Assay in antagonist mode (to identify antagonist compounds), ER alpha-LBD is added to ligand test compounds, followed by addition of a mixture of agonist, fluorescein-coactivator peptide, and terbium (Tb)-labeled anti-GST antibody. The concentration of agonist used in this mode is the EC₈₀ concentration as determined by first running the assay in agonist

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	mode.
Applications	Co-Factor Interaction Assay, Nuclear Receptor Assay
Storage	1 tube ER alpha Ligand Binding Domain Recombinant Protein (store at -68 to -85°C) 1 tube of Peptide (store at -5 to -30°C) 2 bottles TR-FRET Buffer (store at -5 to -30°C) 1 tube Tb-Anti-GST Ab (store at -5 to -30°C) 1 tube of DTT (store at -5 to -30°C)
Size	800 x 20 µ assays

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