

TR-FRET ER beta Coactivator Assay Kit

Cat. No. Kit-0925 **Lot. No.** (See product label)

SPECIFICATION

Product Overview

The TR-FRET ER beta Coactivator Assay Kit provides a sensitive and robust method for high-throughput screening of potential estrogen receptor (ER) beta ligands as agonists or antagonists of ligand-dependent coactivator recruitment. The kit uses a ER beta ligand-binding domain (ER beta-LBD) that is 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 beta Coactivator Assay in agonist mode (to identify agonist compounds), ER beta-LBD is added to ligand test compounds followed by the addition of a mixture of 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. Based upon the biology of the ER beta-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

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

Description

Applications

Co-Factor Interaction Assay, Nuclear Receptor Assay

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Storage	1 tube ER beta 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 vial Tb-Anti-GST Ab (store at -5 to -30°C) 1 tube of DTT (store at -5 to -30°C)
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Size	800 x 20 µ assays
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