TR-FRET Glucocorticoid Receptor Coactivator Assay Kit

Cat. No. Kit-0955 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	
Description	The TR-FRET Glucocorticoid Receptor Coactivator Assay Kit provides a sensitive and robust method for high-throughput screening of potential glucocorticoid receptor (GR) ligands as agonists or antagonists of ligand-dependent coactivator recruitment. The kit uses a human recombinant GR ligand-binding domain (GR-LBD) tagged with glutathione-S-transferase (GST) (also available separately), a terbium (Tb)-labeled anti-GST antibody, and a fluorescein-labeled coactivator peptide in a homogeneous mix-and-read assay format. Agonist Mode When running the LanthaScreen TR-FRET Glucocorticoid Receptor Coactivator Assay in agonist mode (to identify agonist compounds), GR-LBD is added to ligand test compounds, followed by the addition of a mixture of fluorescein-coactivator peptide and Tb-labeled anti-GST antibody. After incubation at room temperature, the 520/495 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 GR-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 Glucocorticoid Receptor Coactivator Assay is run in antagonist mode (to identify antagonist compounds), GR-LBD is added to ligand test compounds followed by the addition of a mixture of agonist, fluorescein-coactivator peptide, and Tb-labeled anti-GST antibody. The concentration of agonist

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	used in this mode is the EC80 concentration as determined by first running the assay in agonist mode.
Applications	Co-Factor Interaction Assay, Nuclear Receptor Assay
Storage	1 tube GR 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)
Size	800 x 20 µ assays

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