TR-FRET FXR Coactivator Assay Kit, rabbit

Cat. No. Kit-0956 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	
Description	The TR-FRET FXR (farnesoid X receptor) Coactivator Assay Kit provides a sensitive and robust method for high-throughput screening of potential FXR ligands as agonists of coactivator recruitment. The kit uses a terbium (Tb)-labeled anti-GST antibody, a fluorescein-labeled coactivator peptide, and an FXR ligand-binding domain (FXR-LBD) that is tagged with glutathione-S-transferase (GST), in a homogeneous, mix-and-read assay format. To assay: When running the TR-FRET FXR coactivator assay in agonist mode, FXR-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 used to determine the EC50 from a dose response curve of the compound. Based on the biology of the FXR-coactivator peptide interaction, the ligand EC50 is a composite value representing the amount of ligand required to bind to receptor, effect a conformational change, and recruit coactivator peptide.
Applications	Nuclear Receptor Assay
Storage	Tb-anti-GST Antibody (Rabbit): Store at -20 °C FXR-LBD, GST: Store at -80 °C Fluoroscein Coactivator Peptide: Store at -20 °C TR-FRET Coregulatore Buffer G: Store at 4 °C 1M DTT: Store at -20 °C or -80 °C

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

Size	800 x 20 µ assays
Materials Required but Not Supplied	Microplate Reader
Detection method	Fluorescent

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