

TR-FRET PXR (SXR) Competitive Binding Assay Kit, goat

Cat. No. Kit-0904 Lot. No. (See product label)

SPECIFICATION

Product Overview

Description

The TR-FRET PXR (SXR) Competitive Binding Assay Kit provides a sensitive and robust method for high-throughput screening (HTS) of ligands for the pregnane X receptor (PXR), also known as the steroid and xenobiotic receptor (SXR). The kit uses a terbium (Tb)-labeled anti-GST antibody, a fluorescent small-molecule PXR ligand (PXR (SXR) Green), and a human PXR (SXR) ligand-binding domain that is tagged with glutathione S-transferase (GST) in a homogeneous mix-and-read assay format.

To assay:

When running the TR-FRET PXR (SXR) competitive binding assay, a Tb-labeled anti-GST antibody is used to indirectly label the receptor by binding to its GST tag. Competitive ligand binding is detected by a test compound's ability to displace a fluorescent ligand (tracer) from the receptor, which results in a loss of FRET signal between the Tb-anti-GST antibody and the tracer. This type of binding assay is analogous to radioligand-based assays, except that it eliminates handling of radioactivity and enables a homogeneous, addition-only " format.

Applications

Competitive Binding Assay

Storage

Store in ultra-cold freezer (-68 to -85°C).

Shipping

Dry Ice

Size

800 x 20 µ assays

 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

**Materials Required
but Not Supplied**

Microplate Reader

Detection method

Fluorescent

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