CREATIVE BIOMART®
Assay Kit

Progesterone Receptor Competitor Assay Kit, Red

Product Information

Cat	
Kit-0946	
Common Name	
Progesterone	
Cat.No.	Kit-0946

Description

The Progesterone Receptor Competitor Assay Kit, Red, provides a sensitive and efficient method for high-throughput, fluorescence polarization-based screening of potential progesterone receptor (PR) ligands. The kit uses insect cell-expressed, human progesterone receptor ligand binding domain tagged with glutathione-S-transferase (GST) (also available separately) and a novel, high-affinity, fluorescent progesterone ligand (PL Red) in a homogenous, mix-and-read assay format.

This kit produces a red color read-out; a "green" kit is also available. Both kits suitably determine the IC50s of competitive compounds. Color choice depends on the spectral properties of the compounds to be screened and the available instrumentation.
The PolarScreen Progesterone Receptor Competitor Assay is:
• Complete & ready-to-use out of the box—all reagents included, just add your test compounds
• High throughput compatible—fluorescence polarization assays in a 384-well plate
• Convenient—components available in bulk sizes for larger screening needs
How the Assay Works
An N-terminal fusion of glutathione transferase to the ligand-binding domain of the human progesterone receptor (PR-LBD(GST)) is added to a fluorescently-tagged progesterone ligand (Fluormone PL Red) in the presence of competitor test compounds in microwell plates. The presence of effective competitors prevents the formation of a PL Red/PR-LBD(GST) complex resulting in a decrease of the polarization value. The shift in polarization value in the presence of test compounds is used to determine relative affinity of test compounds for PR-LBD(GST).
Contact us for bulk quantities or for assistance with other nuclear receptor assay needs, from assay

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Assay Kit

Progesterone Receptor Competitor Assay Kit, Red

development to library screening and beyond.

Applications

Competitive Binding Assay, Nuclear Receptor Assay

Storage

1 tube Progesterone Receptor Ligand Binding Domain Recombinant Protein (store at -68 to -85°C)
1 tube of Fluormone PL Red Tracer (store at -5 to -30°C)
2 bottles of PR Red Screening Buffer (store at -5 to -30°C)
1 tube of DTT (store at -5 to -30°C)

Size

400 x 20 µL assays

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