CREATIVE BIOMART®
Assay Kit

Progesterone Receptor Competitor Assay Kit, Green

Product Information

Cat	
Kit-0969	
Common Name	
Progesterone	
Cat.No.	Kit-0969

Description

The Progesterone Receptor Competitor Assay Kit, Green, 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 PR ligand binding domain tagged with glutathione-S-transferase (GST) (also available separately) and a novel, high-affinity, fluorescent progesterone receptor ligand (PL Green) in a homogenous, mix-and-read assay format.
This kit produces a green color read-out; a "red" 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 Green) in the presence of competitor test compounds in microwell plates. The presence of effective competitors prevents the formation of a PL Green/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, Green

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 Green (store at -5 to -30°C)
2 bottles of PR Screening Buffer (store at -5 to -30°C)
1 tube of 1 M DTT (store at -5 to -30°C)

Size

400 x 20 µL assays

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