



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).



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Contact us for bulk quantities or for assistance with other nuclear receptor assay needs, from assay 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
