

Androgen Receptor Competitor Assay Kit, Green

Product Information

Cat

Kit-0916

Common Name

Androgen

Cat.No.

Kit-0916

Description

The Androgen Receptor Competitor Assay Kit, Green, provides a sensitive and efficient method for high-throughput, fluorescence polarization-based screening of potential androgen receptor (AR) ligands. The kit uses insect cell-expressed, rat AR-ligand binding domain tagged with glutathione-S-transferase (GST) and histidine (also available separately), plus a novel, high-affinity, fluorescent androgen ligand (AL 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 Androgen 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

The kit uses the rat AR ligand-binding domain tagged with His and GST [AR-LBD(His-GST)]. AR-LBD(His-GST) is added to a fluorescently-tagged androgen ligand (FluormoneAL Green) in the presence of competitor test compounds in microwell plates. The presence of effective competitors prevents the formation of a AL Green/AR-LBD(His-GST) complex, resulting in a decrease of the polarization value due to ligand displacement caused by a competitor. The shift in polarization value in the presence of test compounds is used to determine relative affinity of test compounds for AR-LBD(His-GST).

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



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development to library screening and beyond.

Applications

Competitive Binding Assay, Nuclear Receptor Assay

Storage

1 tube AR Ligand Binding Domain GST/His-tagged Recombinant Protein (store at -68 to -85°C)
1 tube of Fluormone AL Green (store at -5 to -30°C)
2 bottles of Screening Buffer (store at -5 to -30°C)
1 tube of 1 M DTT (store at -68 to -85°C)

Size

800 x 20 µL assays
