CREATIVE BIOMART®
Assay Kit

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 development to library screening and beyond.

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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

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