CREATIVE BIOMART®
Assay Kit

Androgen Receptor Competitor Assay Kit, Red

Product Information

Cat	
Kit-0952	
Common Name	
Androgen	
Cat.No.	Kit-0952

Description

The Androgen Receptor Competitor Assay Kit, Red, 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 receptor ligand (Fluormone AL 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 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 Red) in the presence of competitor test compounds in microwell plates. Competitors displace the fluorescent FluormoneAL Red Ligand from the AR-LBD/FluormoneAL Red complex, causing the fluorescent ligand to tumble rapidly during its fluorescence lifetime, resulting in a low polarization value. Noncompetitors will not displace the fluorescent ligand from the complex; therefore, the polarization value remains high. The shift in polarization value in the presence of the test compounds is used to determine relative

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affinity of test compounds for the AR-LBD.
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 AR Ligand Binding Domain GST/His-tagged Rat Recombinant Protein (store at -68 to -85°C)
1 tube of Fluormone AL Red Tracer (store at -5 to -30°C)
3 bottles of AR Red Screening Buffer (store at -5 to -30°C)
1 tube of 1 M DTT (store at -5 to -30°C)

Size

800 x 20 µL assays

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