

Androgen Receptor Competitor Assay Kit, Red

Cat. No. Kit-0952 Lot. No. (See product label)

SPECIFICATION

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

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compounds is used to determine relative 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 μ assays

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