CREATIVE BIOMART®
Assay Kit

ER Beta Competitor Assay Kit, Red

Product Information

Cat

Kit-0941

Common Name

ER

Cat.No. Kit-0941

Description

The ER Beta Competitor Assay Kit, Red, provides a sensitive and efficient method for high-throughput, fluorescence polarization-based screening of potential estrogen receptor (ER) beta ligands. The kit uses insect cell-expressed, full-length, native (untagged) human ER beta and a novel, high-affinity, fluorescent estrogen ligand (ES2) 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 ER Beta Competitor Assay Kit is:
• Complete & ready-to-use out of the box—all reagents included, just add your test compounds
• High throughput compatible—20 µL fluorescence polarization assays in a 384-well plate
• Convenient—available in bulk sizes for larger screening needs
How the Assay Works
Full-length ER beta is added to a fluorescent estrogen ligand to form an ER-ES2 complex. This complex is added to individual test compounds in multiwell plates. To determine relative affinity, the assay measures fluorescence polarization. Competing test compounds will displace the ES2 ligand from ER beta, permitting it to tumble rapidly and resulting in low polarization values. A shift in the fluorescence polarization value in the presence of test compound is used to determine the relative affinity of test compounds for ER beta.
All components are manufactured under the strictest quality parameters. This product's performance, per the Certificate of Analysis, is guaranteed for 6 months after purchase. Contact us for bulk quantities or for assistance with other nuclear receptor assay needs, from assay

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ER Beta Competitor Assay Kit, Red

development to library screening and beyond.

Applications

Nuclear Receptor Assay

Storage

- Estrogen Receptor (ER) Beta Recombinant Protein, Full Length (store at -68 to -85°C)
- Fluromone™ EL Red (store at -5 to -30° C)
- ER Red Assay Buffer (store at room temperature)

Size

1 kit

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