Glucocorticoid Receptor Competitor Assay Kit, Green

Cat. No. Kit-0948 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	
Description	The Glucocorticoid Receptor Competitor Assay Kit, Green, provides a sensitive and efficient method for high-throughput, fluorescence polarization-based screening of potential glucocorticoid receptor (GR) ligands. The kit uses insect cell-expressed, full-length, native (untagged) human GR (also available separately) and a novel, high-affinity, fluorescent glucocorticoid ligand (GS1 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 Glucocorticoid 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 GR is added to a fluorescent glucocorticoid ligand to form a GR-Fluormone GS1 complex in the presence of competitor test compounds in microwell plates. The presence of effective competitors prevents the formation of a GS1/GR complex, resulting in a decrease of the polarization value. The shift in polarization value in the presence of test compounds is used to determine relative affinity of test compounds for GR. This assay is designed to be carried out at room temperature through use of a

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	coactivator-related stabilizing peptide. Alternatively, the assay may be run at 4°C in the absence of the stabilizing peptide, with insignificant change in GR binding characteristics. 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 Glucocorticoid Receptor Recombinant Protein (store at -68 to -85°C) 1 tube of Fluormone GS1 (store at -5 to -30°C) 3 tubes of GR Screening Buffer (store at -5 to -30°C) 3 tubes of GR Stabilizing Peptide (store at -68 to -85°C) 1 tube of 1 M DTT (store at -68 to -85°C)
Size	400 x 20 µ assays

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA